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Water Resources Data
Utah
Water Year 1987

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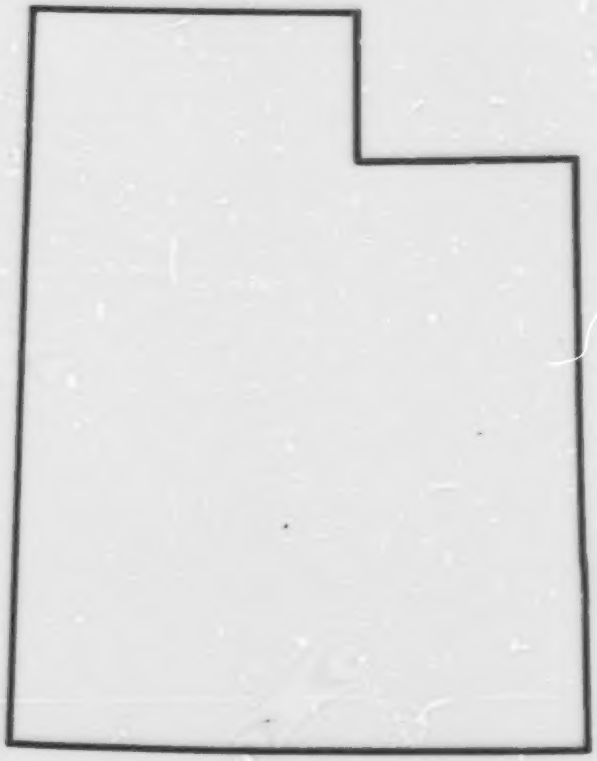

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-87-1
Prepared in cooperation with the State of Utah
and with other agencies

COMPLETED

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI).

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

Water Resources Data
Utah
Water Year 1987

by M.D. ReMillard, L.R. Herbert, G.W. Sandberg, and G.A. Birdwell

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT UT-87-1
Prepared in cooperation with the State of Utah
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PREFACE

This volume of the annual hydrologic data report of Utah is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Utah are contained in one volume.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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Prepared in cooperation with the State of Utah and with other agencies.

16. Abstract (Limit: 200 words)

Water resources data for the 1987 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water quality of ground water. This report contains discharge records for 180 gaging stations; stage and contents for 21 lakes and reservoirs; water quality for 22 hydrologic stations and 225 wells; miscellaneous temperature measurements and field determinations for 143 stations; and water levels for 32 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

17. Document Analysis a. Descriptors

*Utah, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

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[Letter after station name designates type of data: (d) discharge, (e) elevation or contents, (c) chemical, (b) biological, (t) water temperature, (s) sediment.]

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GROUND-WATER LEVELS

BEAVER COUNTY

Well 382561112555101 Local number (C-27-10)25cbd- 1 343
Well 382020112585901 Local number (C-28-10)28cdd- 1 342

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GROUND-WATER WELLS, BY COUNTY, FUR WHICH RECORDS ARE PUBLISHED

GROUND-WATER LEVELS

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BOX ELDER COUNTY
- Well 414236112101201 Local number (B-11- 3)10abb- 4 343
- Well 414411112543701 Local number (B-12- 9)30cda- 1 344
- Well 415703112514501 Local number (B-14- 9) 9add- 1 344

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IRON COUNTY
- Well 375241112471001 Local number (C-34- 8) 5bca- 1 345
- Well 374132113063601 Local number (C-36-11) 8aab- 1 345
- Well 374053113415101 Local number (C-36-15) 6cbc- 1 345
- Well 373643113415301 Local number (C-38-17)36add- 1 346

JUAB COUNTY
- Well 395259113430401 Local number (C-11-17)12cbb- 1 346
- Well 393143111523301 Local number (C-15- 1)12aba- 1 346

KANE COUNTY
- Well 370901112335001 Local number (C-42- 6)19baa- 1 347
- Well 370523112334702 Local number (C-42- 6)30dcc- 2 347

MILLARD COUNTY
- Well 393646112231301 Local number (C-15- 5)15dad- 1 347
- Well 393020112352201 Local number (C-15- 7)23bac- 1 348
- Well 385844112245801 Local number (C-21- 5)21aba- 1 348
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SanPete County wells 360
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Tooele County wells 360
Utah County wells 360
Washington County wells 360
Wayne County wells 360
Weber County wells 362

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WATER RESOURCES DATA FOR UTAH, 1987

INTRODUCTION

Water resources data for the 1987 water year for Utah consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 180 gaging stations; stage and contents for 21 lakes and reservoirs; water quality for 22 hydrologic stations, and 225 wells; miscellaneous temperature measurements and field determinations for 143 stations; and water levels for 32 observation wells. Additional water data were collected at various sites not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Utah.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels and Artesian Pressures in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, Virginia, 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report UT-84-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (801) 524-5663.

COOPERATION

The U.S. Geological Survey and organizations of the State of Utah have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1935, and for water-quality records since 1941. Organizations that assisted in collecting data through cooperative agreement with the Geological Survey are:

Department of Natural Resources, D. C. Hansen, Executive Director
Division of Water Rights, R. Morgan, State Engineer
Division of Water Resources, D. L. Anderson, Director
Utah Geological and Mineral Survey, Genevieve Atwood, Director
Division of Wildlife Resources, W. H. Geer, Acting Director
Bear River Commission, W. N. Jibson, Chairman
Salt Lake County Commission, D. Michael Stewart, Chairman

Assistance in the form of funds was given by the Bureau of Reclamation, U.S. Department of the Interior, in collecting records for 7 gaging stations and by the Bureau of Land Management, U.S. Department of the Interior, for 3 gaging stations. Records for 12 gaging stations in Idaho in the Bear River basin and 8 in Utah were collected by the Utah Power and Light Co. under Federal Energy Regulatory Commission License.

Other district offices of the Geological Survey, Water Resources Division, obtained the records listed below:

Colorado District.--Colorado River near Colorado-Utah State line

Wyoming District.--Bear River at Evanston, WY
Blacks Fork near Millburne, WY
Green River near Green River, WY
Henrys Fork near Manilla, UT

Records for all stream-gaging stations operated by the Geological Survey in the Bear River basin in Utah, Idaho, and Wyoming are included in this report.

Organizations that supplied data are acknowledged in station descriptions.

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SUMMARY OF HYDROLOGIC CONDITIONS

By K. L. Lindskov

Water year 1987 was uneventful, in terms of hydrologic conditions, compared to water years 1982-86, when precipitation and streamflow were much above average. Only a few gaging stations had record peak flows during water year 1987. These stations were established recently in the San Juan and Virgin River basins (fig. 1), and have 3 or less years of record; the peaks resulted from thunderstorms.

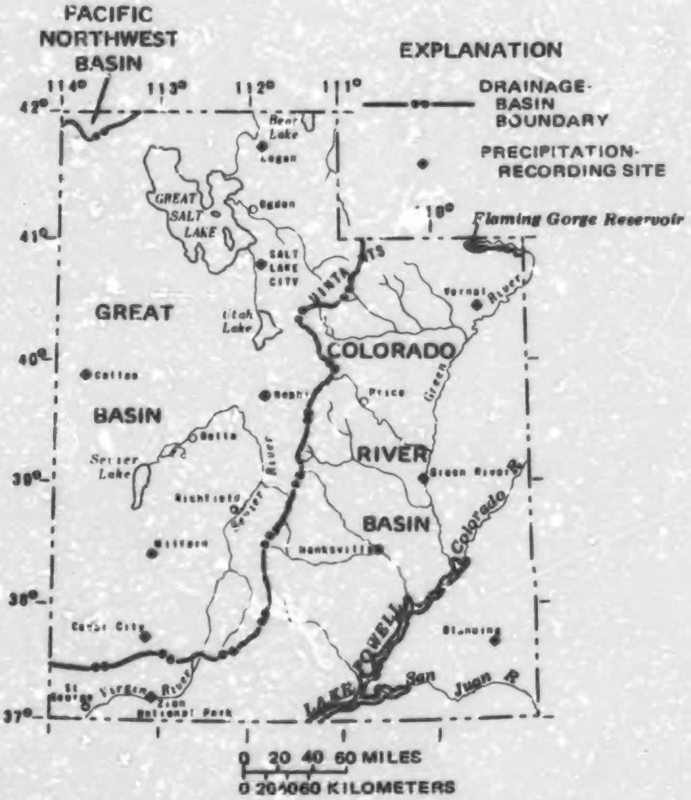
PACIFIC NORTHWEST BASIN
EXPLANATION
DRAINAGE-BASIN BOUNDARY
PRECIPITATION-RECORDING SITE
114°
113°
112°
111°
110°
42°
41°
40°
39°
38°
37°
Flaming Gorge Reservoir
Bear Lake
Logan
GREAT SALT LAKE
Ogden
SALT LAKE CITY
UINTA MTS
Vernal
River
GREAT
Utah Lake
COLORADO
Callao
Nephi
Price
Green
BASIN
Delta
Sevier Lake
River
RIVER
Green River
Richfield
Sevier
BASIN
Colorado
Milford
Hanksville
Cedar City
Blanding
LAKE POWELL
San
Juan R
St George
Virgin River
Zion National Park
0 20 40 60 MILES
0 20 40 60 KILOMETERS

Figure 1.--Precipitation-recording sites.

Statewide, precipitation for water year 1987 was near normal, as indicated by the precipitation listed on next page for 11 representative sites operated by the National Oceanic and Atmospheric Administration. (See figure 1 for location.) Annual precipitation for water year 1987 at 5 of the 11 sites ranged from 0.62 to 4.27 inches above average, whereas annual precipitation at the other 6 sites ranged from 0.55 to 4.60 inches below average. Generally, the sites with above average annual precipitation are located in the eastern part of the State in the Colorado River Basin, and those with below average precipitation are located in the western and northern parts of the State in the Great Basin. The 2.72 inches above average annual at Callao and 1.69 inches below average at Zion National Park are exceptions. By month, the largest negative departures from average were for April and December, and the largest positive departures were for May, July, and August.

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Precipitation at selected sites for water year 1987, in inches
(departure from average for 1951-80)

Site	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total
Blanding	1.26 (-.20)	1.43 (+.54)	0.67 (-.62)	1.19 (-.15)	1.30 (+.35)	0.62 (-.18)	1.50 (+.83)	0.38 (-.21)	0.08 (-.29)	2.48 (+1.44)	4.34 (+2.93)	0.72 (-.17)	15.97 (+4.27)
Callao	1.62 (+1.17)	.06 (-.25)	.00 (-.25)	.59 (+.28)	.49 (+.15)	.42 (+.07)	.01 (-.42)	1.86 (+1.19)	.33 (-.39)	1.76 (+1.35)	.72 (+.19)	.00 (-.37)	7.86 (+2.72)
Cedar City	.92 (+.14)	.44 (-.47)	.57 (-.08)	.48 (-.16)	1.47 (+.67)	1.56 (+.50)	.24 (-.74)	.89 (+.07)	.14 (-.31)	1.11 (+.01)	1.63 (+.46)	.26 (-.64)	9.71 (-.55)
Green River	1.76 (+.98)	.14 (-.32)	.50 (+.11)	.25 (-.15)	.23 (-.14)	1.34 (+.88)	.17 (-.28)	.62 (+.01)	.15 (-.19)	1.61 (+1.23)	.42 (-.37)	.34 (-.07)	7.73 (+1.69)
Hanksville	1.90 (+.87)	.37 (-.06)	.31 (+.01)	.52 (+.22)	.26 (+.04)	.62 (+.27)	.42 (.00)	.76 (+.27)	.08 (-.15)	.55 (+.11)	.29 (-.54)	.18 (-.42)	6.26 (+.62)
Logan	1.29 (-.14)	.87 (-.66)	.14 (-1.49)	1.80 (+.12)	1.51 (-.06)	1.41 (-.34)	.77 (-1.29)	4.90 (+3.19)	.41 (-1.12)	1.80 (+1.35)	.97 (+.01)	.03 (-1.03)	15.90 (-1.46)
Milford	.22 (-.51)	.37 (-.32)	.25 (-.38)	.44 (-.25)	1.27 (+.53)	1.36 (+.36)	.30 (-.63)	.21 (-.52)	.02 (-.40)	1.68 (+1.07)	1.33 (+.62)	.23 (-.46)	7.70 (-.89)
Nephi	.75 (-.32)	.75 (-.47)	.35 (-.90)	.58 (-.72)	1.47 (+.20)	2.21 (+.75)	.34 (-1.14)	1.53 (+.31)	1.31 (+.55)	1.53 (+.90)	1.33 (+.38)	.14 (-.74)	12.30 (-1.20)
Salt Lake City	.39 (-.75)	1.17 (-.05)	.10 (-1.27)	1.53 (+.18)	1.41 (+.08)	1.52 (-.20)	.79 (-1.42)	2.41 (+.94)	.19 (-.78)	.79 (+.07)	.36 (-.56)	.05 (-.84)	10.71 (-4.60)
Vernal	1.64 (+.82)	.08 (-.48)	.14 (-.49)	.40 (-.10)	.80 (+.40)	1.05 (+.46)	.07 (-.52)	1.48 (+.70)	.25 (-.49)	2.01 (+1.30)	1.64 (+.97)	.13 (-.49)	9.69 (+2.01)
Zion National Park	1.12 (+.22)	.90 (-.30)	.69 (-.57)	1.66 (-.10)	1.23 (-.43)	1.94 (+.16)	.40 (-.72)	1.60 (+.80)	.40 (-.20)	1.38 (+.40)	1.56 (-.03)	.01 (-.87)	12.89 (-1.63)

The rapid rise in the level of Great Salt Lake during water years 1982-86 appears to have ended. Below average precipitation and inflow from streamflow combined with pumping to the west desert caused a large decline in the lake level by the end of water year 1987.

Ground-water withdrawals for irrigation during the summer of 1987 were near average because of the near average precipitation and availability of streamflow (L. R. Herbert, U.S. Geological Survey, oral commun., 1988).

SURFACE WATER

By K. L. Lindskov

Annual streamflow for water year 1987, as recorded at seven representative gaging stations, averaged 118 percent of the median (normal) discharge for water years 1946-85 (compared to 165 percent a year ago). Annual streamflow ranged from 69 percent of median for Weber River near Oakley to 231 percent of median for San Juan River near Bluff. Monthly and annual discharge for water year 1987 are compared with the maximum, median, minimum, and selected percentiles for water years 1946-85 in figure 2 for the seven representative gaging stations.

As derived from the data shown in figure 2, annual discharge for water year 1987 was more than 10 percent from the median at four of the seven stations. Annual discharge ranged from 38 to 131 percent above the median for Colorado River near Cisco and for San Juan River near Bluff, whereas it ranged from 23 to 31 percent below the median for Big Cottonwood Creek near Salt Lake City and for Weber River near Oakley. Considering streamflow data for all stations listed in this report, in addition to that presented in figure 2, discharge for water year 1987 generally was at or less than the median Statewide, except for the Colorado and San Juan Rivers, and for some smaller streams in the south-central and southeastern part of the State.

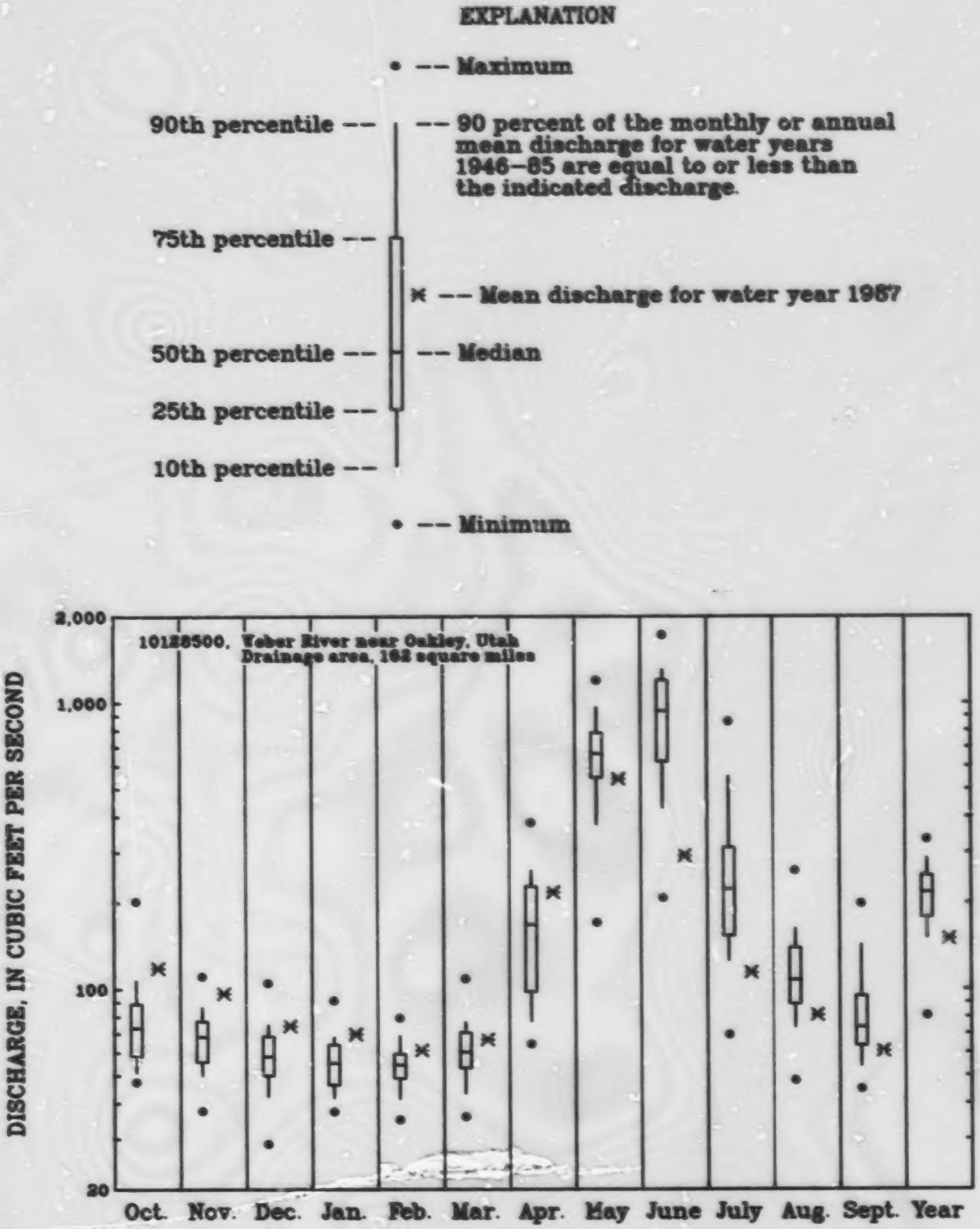

Figure 2.—Comparison of monthly and annual mean discharges for water year 1987 with monthly and annual mean discharges for water years 1946–85 at seven long-term, representative gaging stations.

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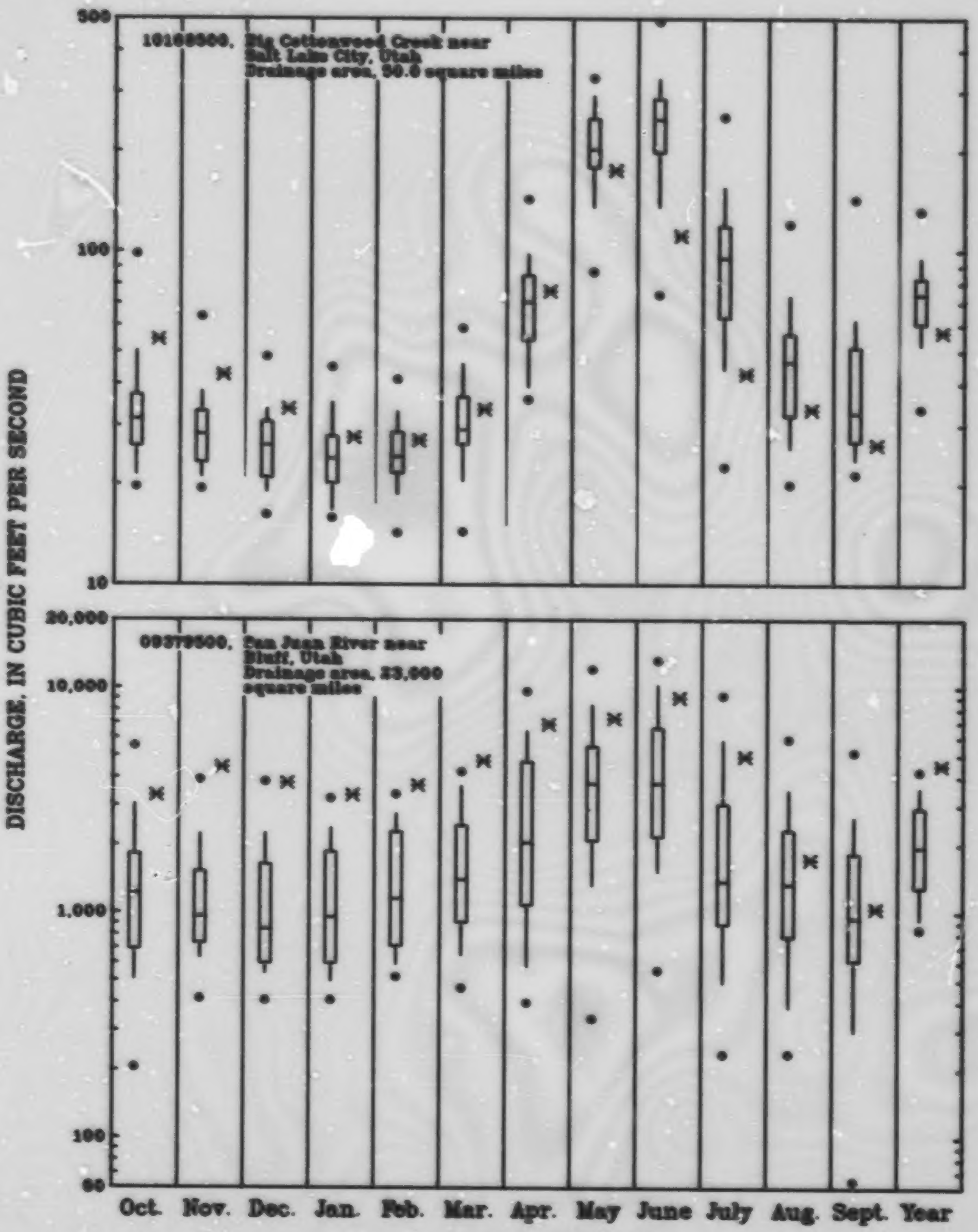

Figure 2.--Comparison of monthly and annual mean discharges for water year 1987 with monthly and annual mean discharges for water years 1946-85 at seven long-term, representative gaging stations.

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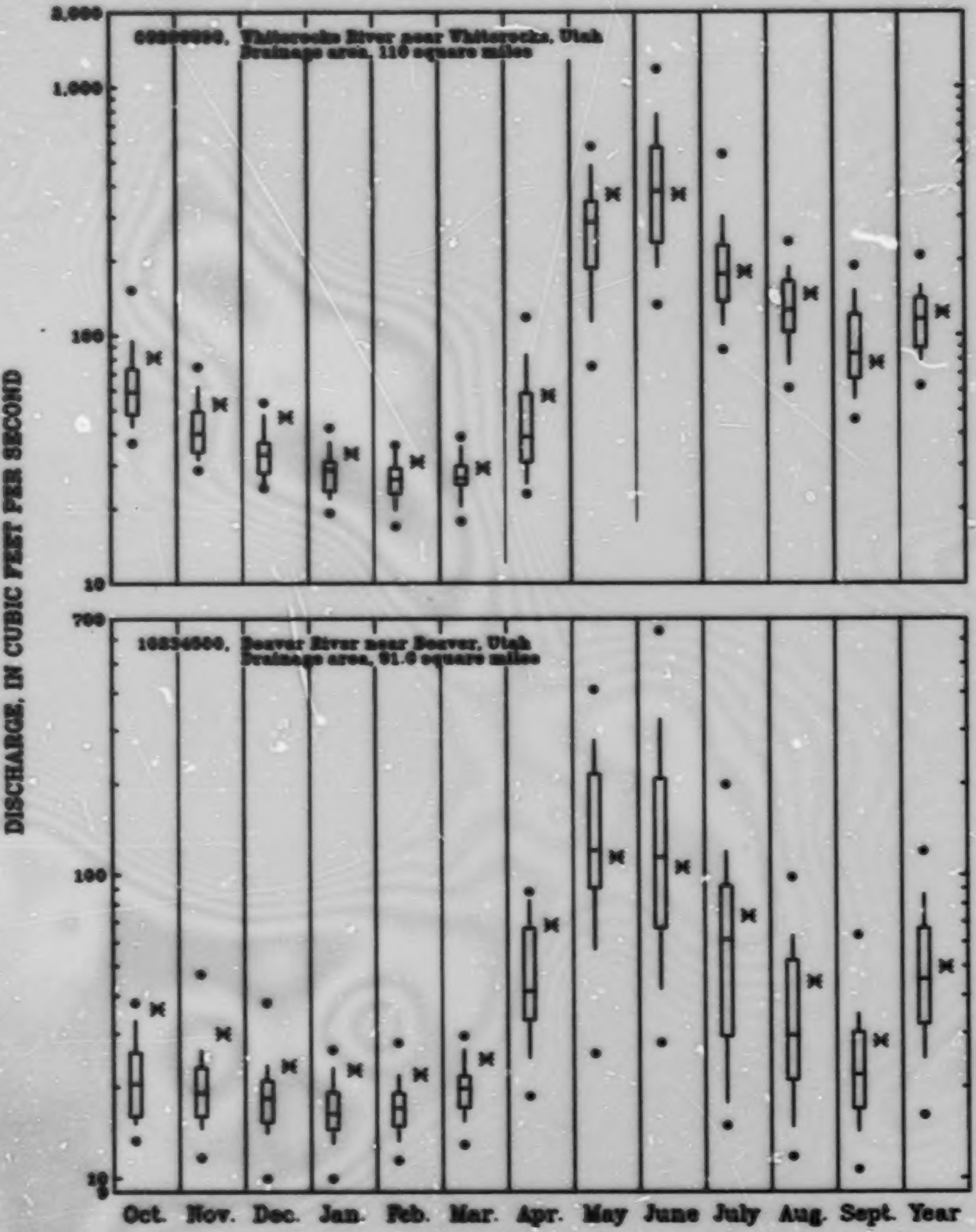

Figure 2.--Comparison of monthly and annual mean discharges for water year 1987 with monthly and annual mean discharges for water years 1946-85 at seven long-term, representative gaging stations.

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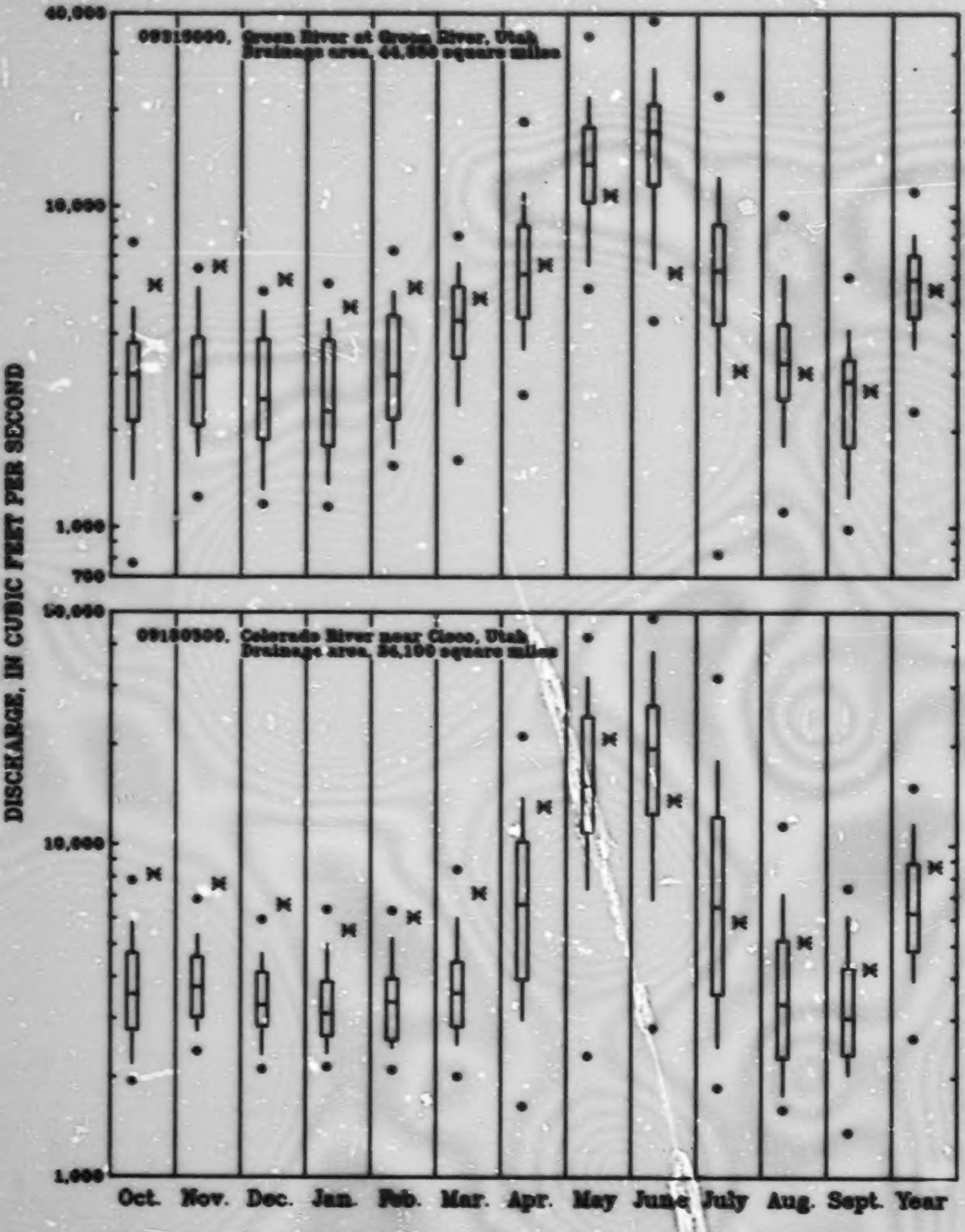

Figure 2.--Comparison of monthly and annual mean discharges for water year 1987 with monthly and annual mean discharges for water years 1946-85 at seven long-term, representative gaging stations.

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Streamflow at the seven representative stations for water year 1987 remained considerably above the median until April to May. Discharge for June and July generally decreased to below median because of early melting of a less than normal snowpack. Streamflow at the end of water year 1987 was near median for five of the seven stations, but it was about 30 to 40 percent above median for Beaver River near Beaver and for Colorado River near Cisco.

The storage in 17 major irrigation reservoirs on October 1, 1987 was 91 percent of average, compared to 128 percent of average on October 1, 1986. The level of Bear Lake was 5,917.62 feet above sea level on October 1, 1987; the lake contained 999,600 acre-feet, compared to 1,262,000 acre-feet a year ago.

The seasonal peak level of Great Salt Lake was 4,211.85 feet above sea level from March 30 to April 6, which equaled the previous all-time historical peak level recorded on June 3, 1986. The peak levels of 1986-87 mark the limit of a rise in lake level of 11.15 feet from the seasonal peak level of 4,200.70 feet on June 1, 1982. (See figure 3.) The rise of 11.15 feet is related to the above average precipitation that began in 1982. However, this rapid rise in lake level appears to have ended. The lake level receded to 4,209.60 feet by September 30, 1987, which is 2.25 feet below the historical peak level.

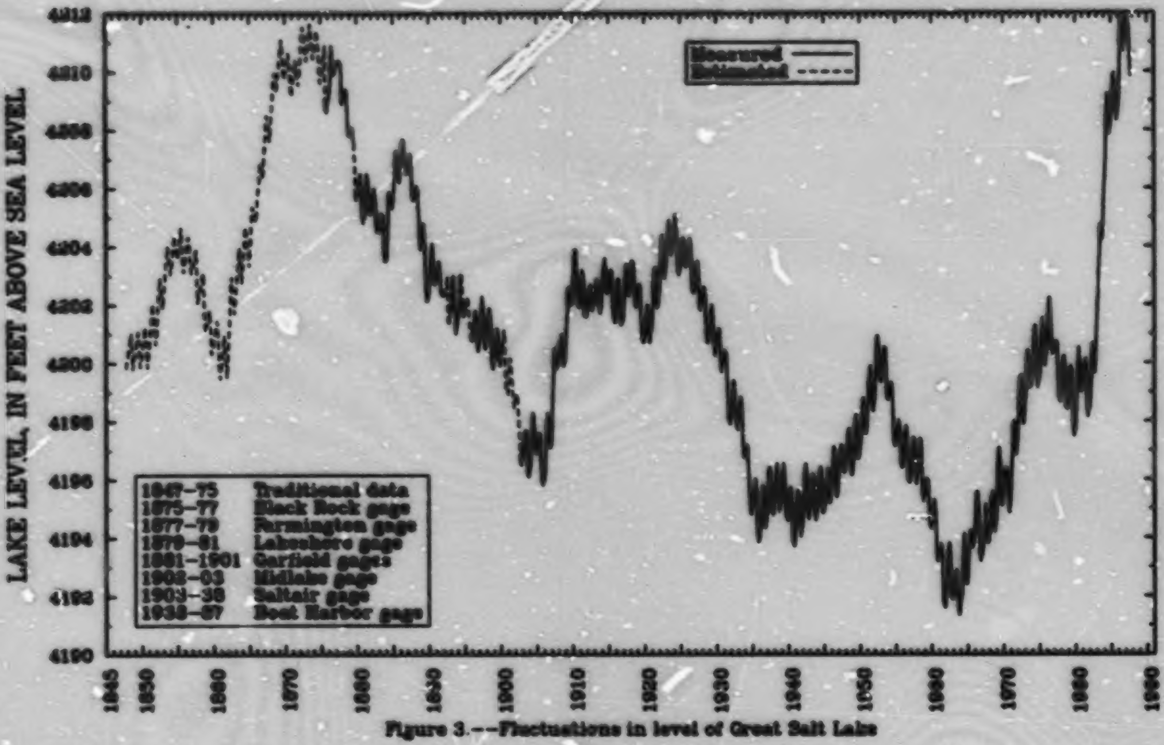

Figure 3.--Fluctuations in level of Great Salt Lake

Summary of Surface-Water Studies

Several studies that include information on surface water in Utah were completed or published during the last year. Selected information from these reports is summarized in the following paragraphs.

A study of data uses and funding sources for the stream-gaging program in Utah was completed in 1986 and was printed in 1987 (Cruff, 1986). This report summarized work that was part of an up-to-date nationwide analysis of the stream-gaging program, with the objective of defining and documenting the most cost-effective means of obtaining streamflow information. During water year 1984, 214 continuous-record streamflow stations were operated in Utah and in the Bear River basin of Idaho and Wyoming with a budget of $854,000, which does not include funding for water-quality work or for miscellaneous sites.

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The fieldwork and most of the interpretation of data were completed for two limited-detail flood-insurance studies during 1986-87 (R. C. Christensen, U.S. Geological Survey, written commun., 1987). Information will be provided to the Federal Emergency Management Agency; that information will include the hydrology, flood potential, flood profiles, and maps showing the areas inundated by the 100-year flood.

A study of the seepage gains or losses of a section of the Central Utah Canal, Pahvant Valley, Millard County, Utah, was completed in 1986 (Enright, 1987). Three sets of seepage measurements were made at 10 canal sites and at all turnouts along a 15.3-mile section of the canal during the summer of 1986. The total loss averaged about 36 cubic feet per second, or 2.4 cubic feet per second per mile.

A study of potential sources of water for use on five land parcels owned by the Piute Indian Tribe was completed in 1987 (Don Price, D. W. Stephens, and L. S. Conroy, U.S. Geological Survey, written commun., 1987). These lands, located in southwestern Utah near Cove Fort, Joseph, Koosharem Reservoir, and Kanarraville, have little surface water and no wells. Supplies of usable ground water may be present, which could be developed to a limited extent by wells.

A study of water use in Utah was completed. Significant water-use information from the study was summarized for the 1987 National Water Summary of the U.S. Geological Survey (G. E. Pyper, U.S. Geological Survey, written commun., 1987). Utah ranks fourth nationally in per-capita use of water from public-supply systems, even though Statewide annual precipitation only averages 13 inches. Per-capita use was about 285 gallons per day; total use for public supply during 1985 was 447 million gallons per day, of which 33 percent was from surface-water sources and 67 percent was from ground-water sources.

A study of the hydrology and potential effects of coal mining on the Alkali Creek and Castle Valley Ridge coal-lease tracts, central Utah, was completed in 1986 (Seiler and Baskin, 1988). The Alkali Creek coal-lease tract includes 2,150 acres in the Book Cliffs coal field; the Castle Valley Ridge coal-lease tract includes 3,360 acres in the Wasatch Plateau coal field. These areas have intermittent streams in which flow after snowmelt runoff, is locally sustained into mid-summer by discharge from springs. The only perennial stream in the two areas is South Fork Corner Canyon Creek in the Castle Valley Ridge coal-lease tract.

WATER QUALITY

By D. W. Stephens

IRRIGATION, SELENIUM, AND BIOTA IN THE MIDDLE GREEN RIVER BASIN DRAINAGE, UTAH

This section was adapted from a report by Stephens and others (1988), which was completed in cooperation with the U.S. Fish and Wildlife Service and the U.S. Bureau of Reclamation.

Introduction

During recent years, concern has been increasing about the quality of irrigation drainage and its potential effects on human health, fish, and wildlife. In 1983, incidences of mortality, birth defects, and reproductive failures in waterfowl were discovered by the U.S. Fish and Wildlife Service at the Kesterson National Wildlife Refuge in the western San Joaquin Valley of California, where irrigation drainage water was impounded. In 1986, the U.S. Department of the Interior established study teams to determine if similar problems existed in nine other areas of the West including the middle Green River basin in Utah. Within the middle Green River basin in Utah, selenium was identified as the element of principal concern.

Study Area

Location

The Green River and its tributaries drain an area of nearly 45,000 square miles in Colorado, Utah, and Wyoming (fig. 4). The middle Green River basin is defined as the area of about 25,500 square miles that consists of the drainage of the Green River and its tributaries between Flaming Gorge Reservoir on the north and the city of Green River, Utah, on the south (fig. 4). The Browns Park and Ouray National Wildlife Refuges, managed by the U.S. Fish and Wildlife Service, and the Browns Park, Stewart Lake, and Desert Lake Waterfowl Management Areas, managed by the Utah Division of Wildlife Resources, are located within this area. An additional wildlife area, Pariette Wetlands, managed by the U.S. Bureau of Land Management, is located 8 miles southwest of the Ouray National Wildlife Refuge.

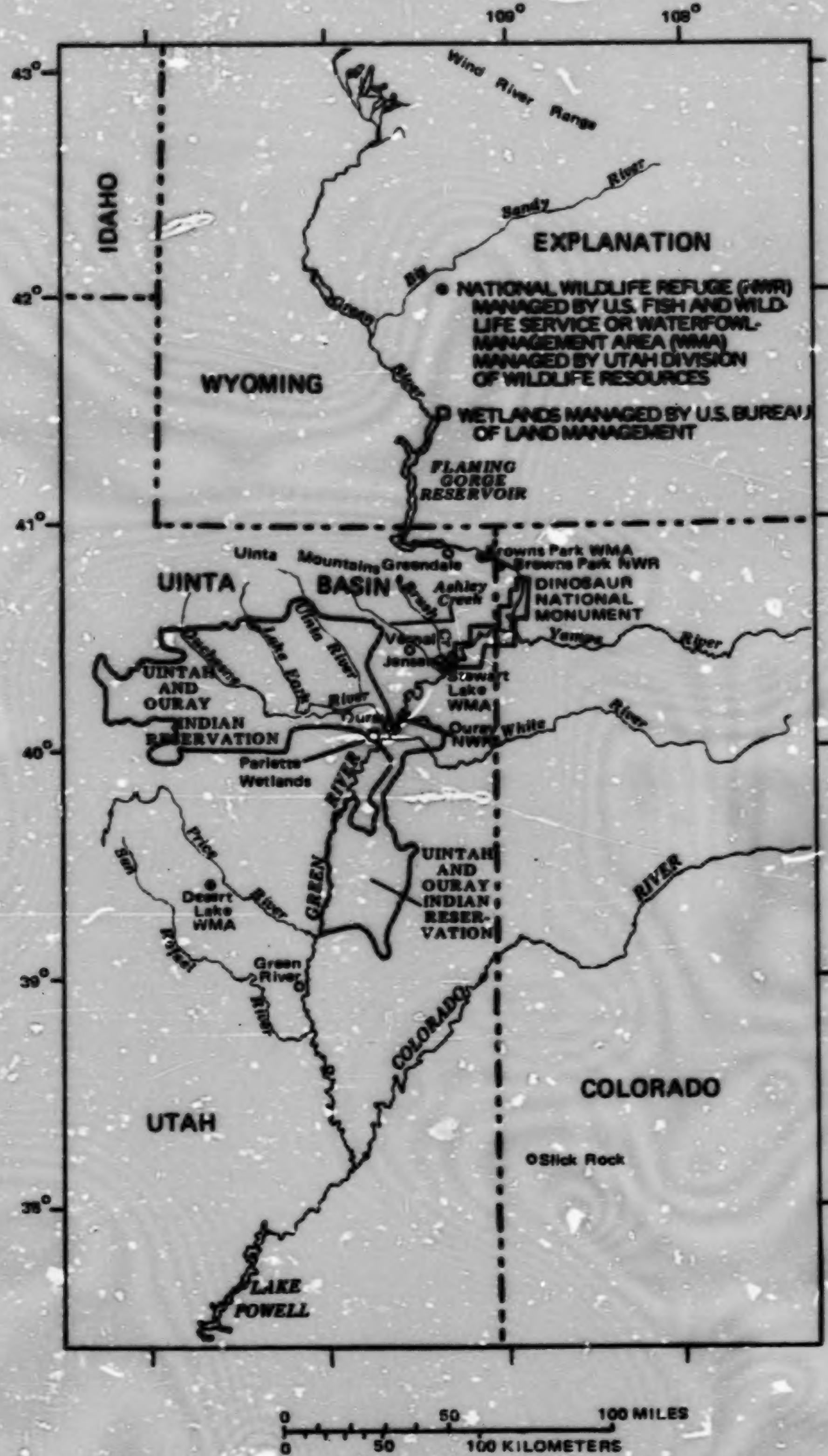
109°
108°
43°
42°
41°
40°
39°
38°
Wind River Range
IDAHO
Big Sandy River
EXPLANATION
● NATIONAL WILDLIFE REFUGE (NWR) MANAGED BY U.S. FISH AND WILDLIFE SERVICE OR WATERFOWL-MANAGEMENT AREA (WMA) MANAGED BY UTAH DIVISION OF WILDLIFE RESOURCES
□ WETLANDS MANAGED BY U.S. BUREAU OF LAND MANAGEMENT
WYOMING
Green River
FLAMING GORGE RESERVOIR
Browns Park WMA
Browns Park NWR
Uinta Mountains
Greendale
UINTA BASIN
Ashley Creek
Brush Creek
DINOSAUR NATIONAL MONUMENT
Duchesne
Lake Fork
Uinta River
Vernal
Jensen
Yampa River
Stewart Lake WMA
UINTAH AND OURAY INDIAN RESERVATION
River
Ouray
Ouray NWR
White River
Pariette Wetlands
GREEN RIVER
Price River
Desert Lake WMA
UINTAH AND OURAY INDIAN RESERVATION
Green River
San Rafael River
RIVER
COLORADO
COLORADO
UTAH
Slick Rock
LAKE POWELL
0 50 100 MILES
0 50 100 KILOMETERS

Figure 4.--The Green River and major tributaries, and location of national wildlife refuges, waterfowl-management areas, and managed wetlands within the middle Green River basin.

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No land is irrigated in the vicinity of the Browns Park National Wildlife Refuge or the Browns Park Waterfowl Management Area. Because geologic maps do not indicate areally extensive outcrops of seleniferous material in or near these two areas, few samples were collected there during the initial reconnaissance. Data from waterfowl collected in 1985 by the Utah Division of Wildlife Resources indicated concentrations of selenium were insignificant at the Desert Lake Waterfowl Management Area. The study team, therefore, concentrated efforts at the Stewart Lake Waterfowl Management Area, an area reported by the Sacramento Bee newspaper to have a selenium problem. The Ouray National Wildlife Refuge also was selected for concentrated effort because of its proximity to the Stewart Lake Waterfowl Management Area and the extensive irrigation within its drainage basin.

The Stewart Lake Waterfowl Management Area is located adjacent to the Green River (fig. 5), just south of Jensen, Utah. Stewart Lake has a surface area of about 250 acres and is operated by the Utah Division of Wildlife Resources. The Ouray National Wildlife Refuge is located on the Green River (fig. 6) 60 miles southwest of Vernal near the town of Ouray, Utah. This refuge has an area of 11,483 acres, which includes 3,500 acres of leased land in the Uintah and Ouray Indian Reservation.

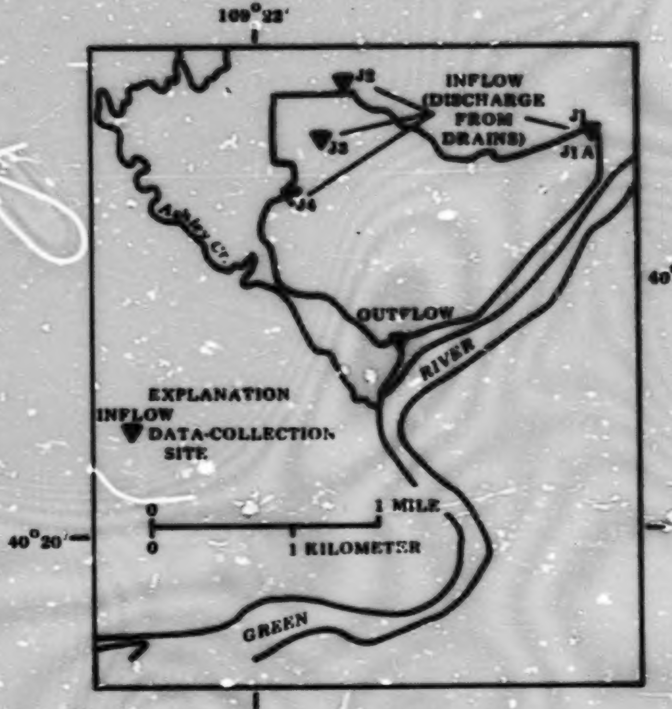
109°22'
INFLOW (DISCHARGE FROM DRAINS)
J2
J3
J4
J1
J1A
Ashley Cr.
OUTFLOW
RIVER
GREEN
EXPLANATION
INFLOW
DATA-COLLECTION SITE
0
1 MILE
0
1 KILOMETER
40°20'

Figure 5.—The Stewart Lake Waterfowl-Management Area showing location of sampling sites.

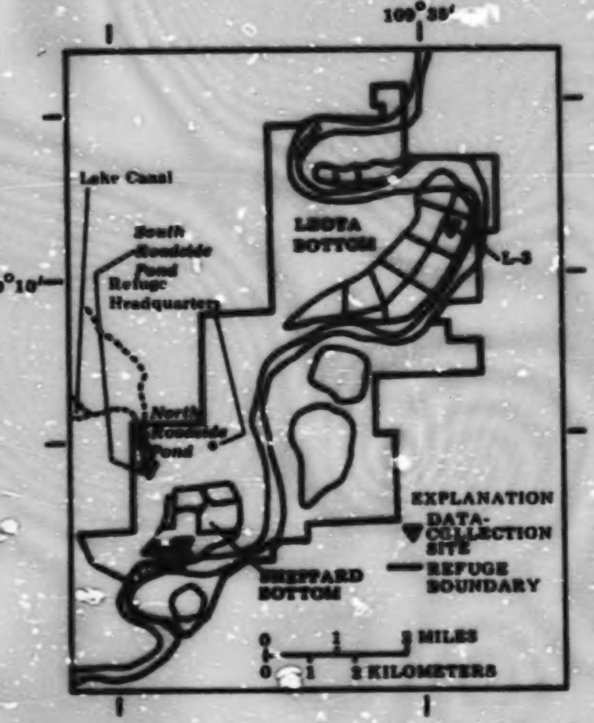
109°35'
40°10'
Lake Canal
South Roadside Pond
Refuge Headquarters
LEOTA BOTTOM
L-3
North Roadside Pond
SHEPPARD BOTTOM
EXPLANATION
DATA-COLLECTION SITE
REFUGE BOUNDARY
0
1
2 MILES
0
1
2 KILOMETERS

Figure 6.—The Ouray National Wildlife Refuge showing location of sampling sites.

Geology

In the Jensen area, the Mancos Shale is more than 5,000 feet thick, and is the formation on which the Green River flows in much of the area (Untermann and Untermann, 1954). The Mancos consists of gray- and yellow-weathered, soft, calcareous shale of marine origin, containing a few sandstone lenses and nodular calcareous beds. Thin calcareous seams, selenite (a variety of gypsum), epsomite, and other minerals commonly occur in the Mancos. Solution of these evaporite minerals in irrigation water creates the water-quality problems in the area.

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Near the Ouray National Wildlife Refuge, gravel of Quaternary age and alluvial deposits of Holocene age underlie the land surface. Fluvial and lake deposits of the Uinta Formation and fluvial sandstone and mudstone of the Duchesne River Formation underlie most of the upland areas and the reach of the Green River between the Stewart Lake Waterfowl Management Area and the Ouray National Wildlife Refuge. The Duchesne River Formation is known to be seleniferous in areas.

Irrigation and Drainage

Although the Jensen Unit of the U.S. Bureau of Reclamation's Central Utah Project provides irrigation water from Red Fleet Reservoir (about 20 miles north of Vernal) via Brush Creek (fig. 4) for about 4,000 acres near the Stewart Lake Waterfowl Management Area, the federally-sponsored drainage system involves only about 750 acres, almost all of which are supplemental-service areas. The land that required drains occupies topographic lows near the northern edge of the Stewart Lake Waterfowl Management Area, and was either deficient in drainage or was expected to become deficient during the duration of the project. Four ground-water drains, consisting of 8- to 18-inch diameter concrete pipe with bell and spigot unions, discharge to the lake. The total discharge from these drains typically averages about 7 cubic feet per second during summer and about 3 cubic feet per second during winter.

Areas northwest of the Ouray National Wildlife Refuge are irrigated extensively using water delivered by the Ouray Park Irrigation Co. Water use within the refuge is estimated to be 2,500 acre-feet annually, with 800 acre-feet supplied by the Ouray Park Irrigation Co. and the remainder from the Green River. Irrigation water from the irrigation company enters the refuge through underground pipe and is used south of the refuge headquarters to irrigate grain for waterfowl feeding. Some of the return flow from this irrigated area may enter ponds in the Sheppard Bottom area. Irrigation water from the Lake Canal also enters the draw north of the North and South Roadside Ponds and flows through these ponds into Sheppard Bottom. Other areas receive water almost exclusively from the Green River.

Selenium

In Water

Water samples collected during this study were analyzed for 14 trace elements, 5 radiochemicals, 30 pesticides, polychlorinated biphenyls and napthalenes, and 13 major ions. Water-quality standards established by the State of Utah and criteria recommended by the U.S. Environmental Protection Agency and the National Academy of Sciences were used to identify those constituents considered to be harmful. Evaluation of the data indicated hazards to human health, fish, and wildlife, and other water uses primarily were related to selenium, although concentrations of boron, nitrate, uranium, and zinc occasionally exceeded established criteria and standards.

Selected data for dissolved selenium in water sampled during the 1986-87 reconnaissance study in the middle Green River basin are summarized in figure 7. Only samples of water from Ashley Creek, the Stewart Lake Waterfowl Management Area, and a portion of the Ouray National Wildlife Refuge were identified as having selenium concentrations that exceeded the Utah standard of 50 μg/L (micrograms per liter) established to protect wildlife. Concentrations of selenium in some water samples from sites in the Browns Park National Wildlife Refuge were less than the reporting level of 1 μg/L. Concentrations of selenium in water from Pariette Wetlands ranged from less than the reporting level to 6 μg/L, and were about the same as those in water from the Desert Lake Waterfowl Management Area, which ranged from less than the reporting level to 8 μg/L.Concentrations of selenium in water entering Stewart Lake ranged from 14 μg/L at drains J1 and J1A to 140 μg/L at drain J3. Concentrations of selenium in all water samples from drains J3 and J4 exceeded the Utah standard. The estimated combined load of dissolved selenium in water from drains J1, J1A, and J2, which had moderately large selenium concentrations but large discharges of water, were nearly twice the combined load from drains J3 and J4, which had large concentra- tions, but small discharges. The total estimated load of selenium entering the Stewart Lake Waterfowl Management Area was about 0.5 kilogram per day, of which 97 percent entered in ground- water discharge from four drains and the remainder in discharge from a small marsh.

The selenium concentration in water from the North Roadside Pond at the Ouray National Wildlife Refuge was 93 μg/L in April 1987, but it was only 9 μg/L in August. Sources of the water for this pond include shallow ground water and irrigation return flow. The concentration of selenium in each of these sources is unknown.

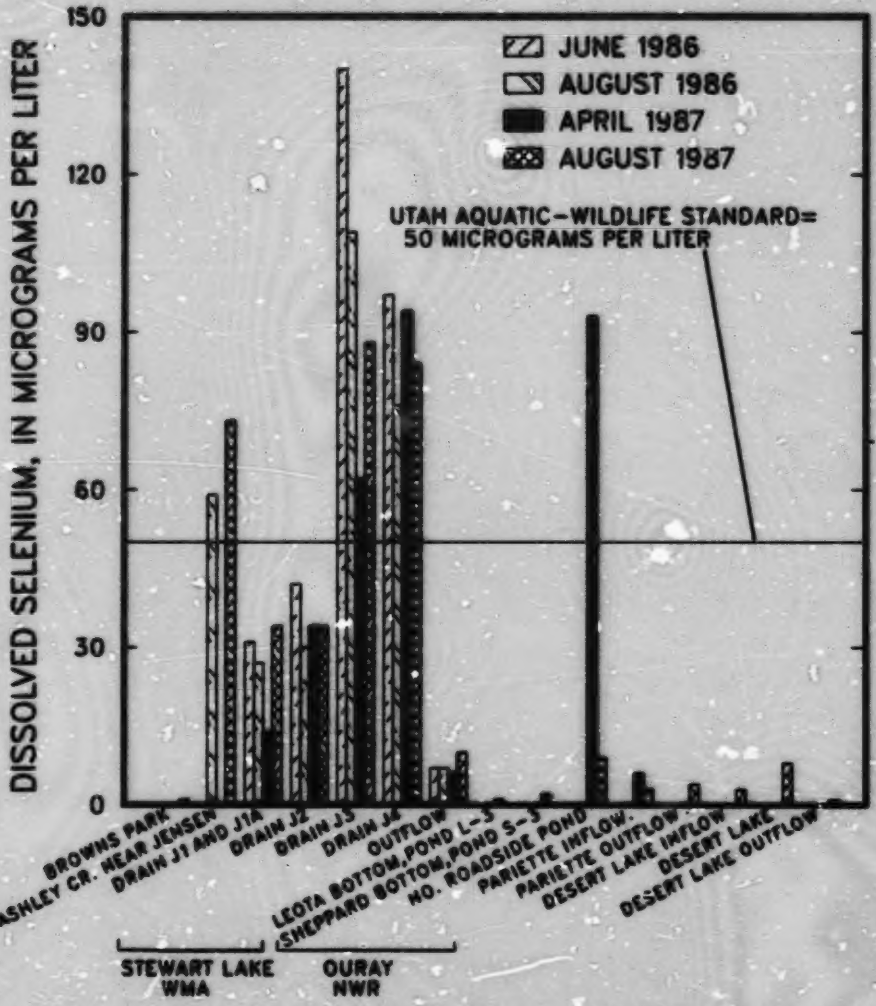

Figure 7.–Concentrations of dissolved selenium in water samples from sites in the middle Green River basin, 1986-87.

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In Biota

Selected data for selenium concentrations in biological tissues are summarized in figure 8. Plant tissue from the Stewart Lake Waterfowl Management Area contained selenium concentrations ranging from less than 1 to 24 μg/g (micrograms per gram) as dry weight. Concentrations of selenium in plants collected near drain J3 were twice as large as those in plants collected in the vicinity of drains J1 and J1A. The effects of these concentrations on animals that feed on the plants is unknown, but ducklings that were fed 10 μg/g of selenium as selenomethionine in experimental studies had increased teratogenic effects and reduced survival (Heinz and others, 1987).

Concentrations of selenium in composite fish samples (primarily carp and black bullheads) from Stewart Lake ranged from 16 to 31 μg/g as dry weight, and tended to be larger in fish collected near the north shore, where most of the drain water enters the lake. Two of the fish samples contained concentrations of selenium of 26 and 31 μg/g as dry weight. The magnitude of these concentrations is similar to concentrations associated with reproductive failure in bluegills (Gillespie and Baumann, 1986). When expressed as wet weight, selenium concentrations in fish were larger than the wet-weight selenium concentration of 2 μg/g that has been associated with toxic effects (Baumann and May, 1984). Concentrations of selenium also were much larger in tissue of fish from the Stewart Lake Waterfowl Management Area than in fish collected from the Ouray National Wildlife Refuge or the Pariette Wetlands. However, the data from the Ouray National Wildlife Refuge do not include fish collected from the North Roadside Pond.

The concentration of selenium in the liver tissue of coots collected from the Stewart Lake Waterfowl Management Area ranged from 4.9 to 26 μg/g as dry weight with a median of 10.2 μg/g. The largest concentrations of selenium were detected in livers from birds collected from the North Roadside Pond at the Ouray National Wildlife Refuge. The range of selenium concentrations in liver tissues from the four coots collected from the North Roadside Pond at the Ouray National Wildlife Refuge was 25 to 43 μg/g as dry weight. All liver tissues from coots collected from the North Roadside Pond contained selenium concentrations within the range reported to cause reproductive failures in waterfowl under experimental conditions (Heinz and others, 1987). Liver tissue collected from coots using the ponds in the Leota Bottom area, which receives water only from the Green River, contained concentrations of selenium that ranged from 2 to 4.8 μg/g as dry weight, and these concentrations probably are representative of the natural background condition for the area. Concentrations of selenium in coot livers collected by the Utah Division of Wildlife Resources from the Desert Lake Waterfowl Management Area in 1985 were quite small, ranging from 5 to 8.5 μg/g as dry weight. The selenium concentration in coot livers collected from the Kesterson National Wildlife Refuge, where large selenium concentrations were determined to be harmful to waterfowl, averaged 37.2 μg/g as dry weight and ranged from 21 to 63 μg/g as dry weight (Ohlendorf and others, 1986).

The concentrations of selenium in coot livers collected from two sites at the Ouray National Wildlife Refuge correlated significantly with selenium concentrations measured in the water. Liver tissues of coots collected in the Leota Bottom area of the refuge, where concentrations of selenium in water were less than the reporting level of 1 μg/L, had concentrations of selenium that ranged from 2 to 4.8 μg/g as dry weight. Concentrations of selenium in liver tissues of coots collected from the North Roadside Pond ranged from 25 to 43 μg/g as dry weight and selenium concentrations in water samples from the North Roadside Pond ranged from 9 to 93 μg/L. Deformed coot embryos were discovered at the North Roadside Pond. Selenium concentrations in five water- bird eggs from the North and South Roadside Ponds ranged from 63 to 120 μg/g as dry weight. Selenium concentrations in the eggs equaled or exceeded concentrations that are reported to cause teratogenic effects and reduced survival of ducklings (Patuxent Wildlife Research Center, 1986); these concentrations are nearly three times greater than those reported as harmful to waterfowl by Heinz and others (1987). The findings of this reconnaissance study resulted in closure to the public of a part of the Ouray National Wildlife Refuge during August 1987.

Intensive studies are planned for 1988-89 at the Stewart Lake Waterfowl Management Area and at the Ouray National Wildlife Refuge to define the extent and sources of contamination at each site and the transport mechanisms involved for specific ions. Additional data also will be collected on substances in water, sediment, and biota at several other sites within the middle Green River basin.

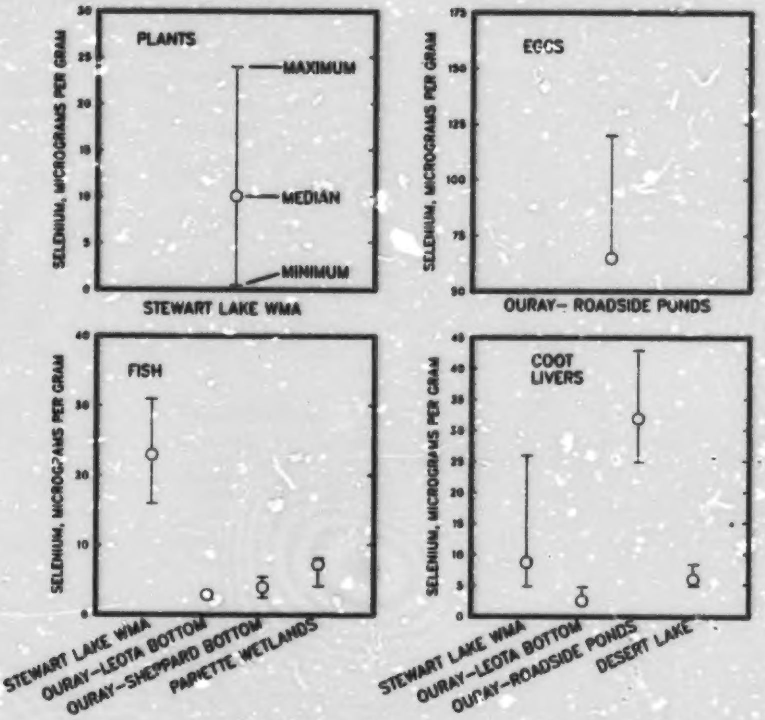

Figure 8.–Concentrations of selenium as dry weight in biological tissues collected at sites in the middle Green River basin, 1986-87.

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GROUND WATER

By Dale E. Wilberg

Summary of Conditions

A study completed in the spring of 1987 (Wilberg and others, 1987) shows the estimated withdrawal of water from wells in Utah during calendar year 1986 was about 688,000 acre-feet, which was about 51,000 acre-feet less than during calendar year 1985 and about 91,000 acre-feet less than the average annual withdrawal for calendar years 1976-85 (fig. 9). The majority of the decrease in withdrawal was due to a decrease in withdrawal for irrigation. Withdrawal for irrigation was 393,000 acre-feet, which was 34,000 acre-feet less than the estimate for calendar year 1985. Withdrawal for industry was 71,000 acre-feet, which was 14,000 acre-feet less than the revised estimate for calendar year 1985. Withdrawal for public supply was 160,000 acre-feet, which was the same as the revised estimate for calendar year 1985. Withdrawal for domestic and stock use was 64,000 acre-feet, which was 2,000 acre-feet less than the revised estimate for calendar year 1985. The areas of ground-water development referred to in this report are shown on figure 10. Of the 31 areas depicted on figure 10, only Cache Valley, Park Valley, Cedar Valley (Utah County), Sanpete Valley, and the combined areas of upper and central Sevier Valleys and upper Fremont River Valley had increased withdrawals during calendar year 1986 compared to calendar year 1985.

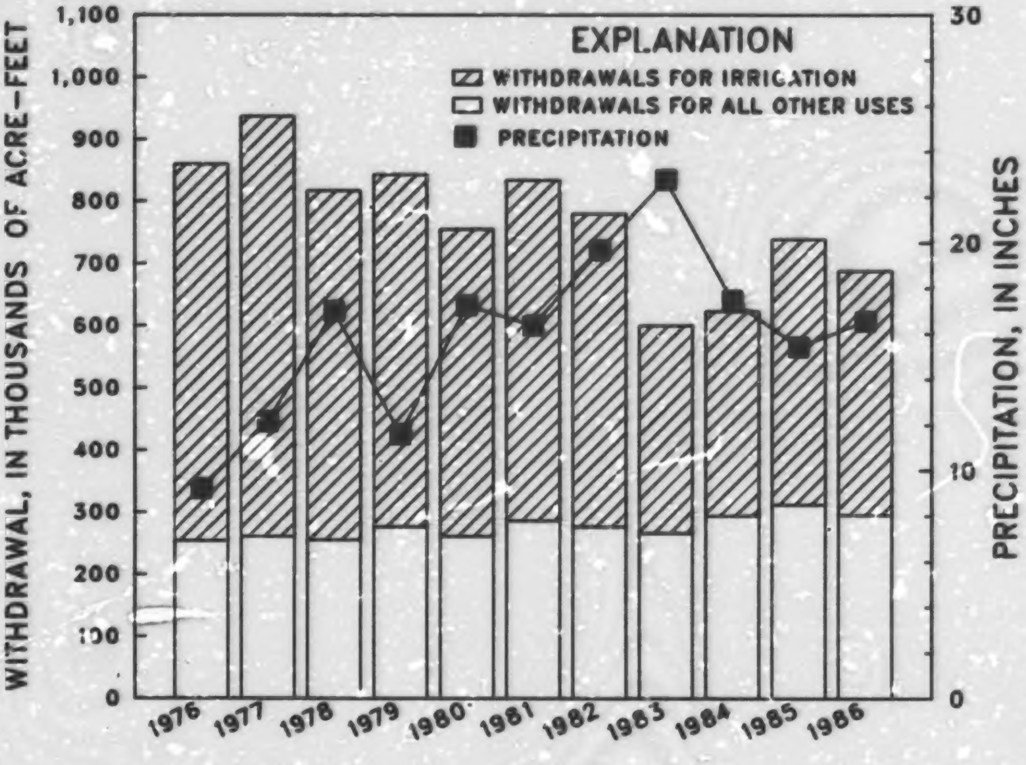

Figure 9.--Annual ground-water withdrawal in Utah and average annual precipitation for 33 climatic stations, calendar years 1976-86.

The quantity of water withdrawn from wells primarily is related to the demand and the availability of water from other sources, which in turn primarily is related to local climatic conditions. The cost of power and other economic considerations, such as crop prices, also are factors in the quantity of water withdrawn from wells. In general, as precipitation increases, ground-water withdrawals decrease, as shown in figure 9. Greater precipitation results in greater streamflow and generally more surface water is available for irrigation. Irrigators commonly use surface water first as it is less expensive, and withdraw less ground water, if they have the option to do so.

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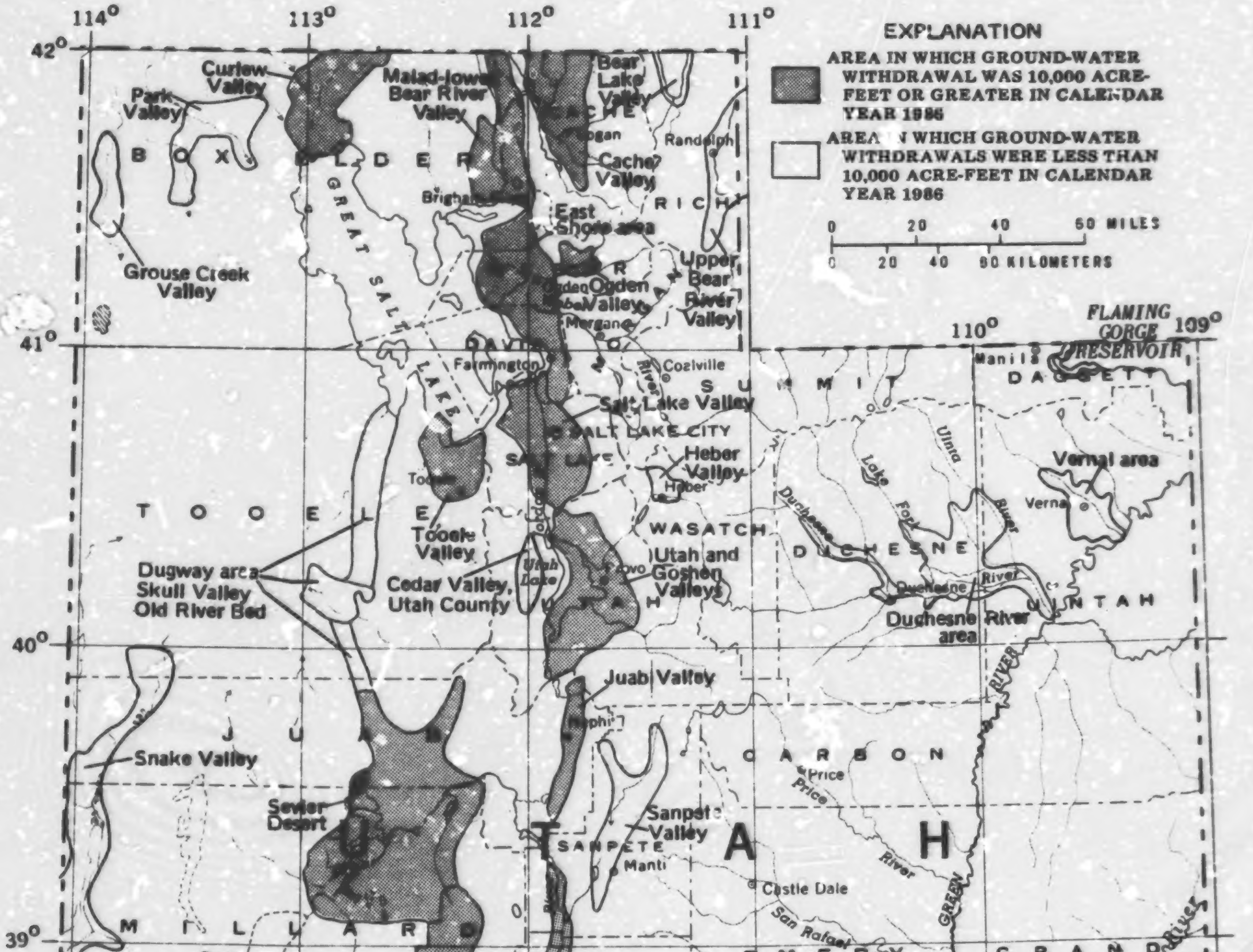
114°
113°
112°
111°
110°
109°
42°
41°
40°
39°
38°
37°
EXPLANATION
AREA IN WHICH GROUND-WATER WITHDRAWAL WAS 10,000 ACRE-FEET OR GREATER IN CALENDAR YEAR 1986
AREA IN WHICH GROUND-WATER WITHDRAWALS WERE LESS THAN 10,000 ACRE-FEET IN CALENDAR YEAR 1986
0 20 40 60 MILES
0 20 40 60 KILOMETERS
Curlew Valley
Park Valley
Malad-lower Bear River Valley
Bear Lake Valley
CACHE
Logan
Randolph
Cache Valley
BOX ELDER
RICH
GREAT SALT LAKE
Brigham
East Shore area
Grouse Creek Valley
Ogden
Ogden Valley
Upper Bear River Valley
Morgan
DAVIS
Farmington
Coalville
FLAMING GORGE RESERVOIR
Manila
DAGGETT
SUMMIT
Salt Lake Valley
SALT LAKE CITY
SALT LAKE
Heber Valley
Heber
Uinta
Lake Fork
Vernal area
Vernal
TOOELE
Tooele
Tooele Valley
WASATCH
Duchesne
DUCHESNE
Dugway area
Skull Valley
Old River Bed
Cedar Valley, Utah County
Utah Lake
Provo
Utah and Goshen Valleys
UTAH
Duchesne River area
UINTAH
Juab Valley
JUAB
Nephi
Snake Valley
CARBON
Price
Price River
Sevier Desert
Sanpete Valley
SANPETE
Manti
UTAH
Castle Dale
San Rafael
GREEN RIVER
MILLARD
Sevier Lake
Fillmore
Pahvant Valley
EMERY
GRAND
Richfield
SEVIER
Muddy Creek
Colorado
Moab
Milford area
Beaver Valley
Beaver
BEAVER
PIUTE
Junction
WAYNE
Fremont River
Dirty Devil River
Central Sevier Valley
Upper Sevier Valleys
Upper Fremont River Valley
Beryl-Enterprise area
IRON
Parowan
Parowan Valley
Panguitch
GARFIELD
Monticello
Monticello area
SAN JUAN
Blanding area
Cedar Valley, Iron County
WASHINGTON
St George
Central Virgin River area
Kanab
KANE
Paria River
LAKE POWELL
San Juan River

Figure 10.--Areas of ground-water development referred to in this report.

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Ground-water withdrawals for calendar year 1986 were 12 percent less than the average annual withdrawal for calendar years 1976-85, whereas precipitation for 1986 was near the 1976-85 average for 33 climatic stations. Withdrawals in most of the areas with major ground-water development were less than or equal to the 10-year average. The Milford area and the Beryl-Enterprise area both had withdrawals for calendar year 1986 that were larger than the 10-year average, whereas withdrawals in the Central Virgin River Valley for 1986 were the same as the 10-year average.

The number of wells drilled during calendar year 1986, as indicated by well-drillers reports filed with the Utah Division of Water Rights, was 596 or about 11 percent more than reported in calendar year 1985. However, many of the wells are replacement wells. Large-diameter wells, which are constructed mostly for public supply, irrigation, and industrial use, accounted for 131 of the 596 wells, nearly 30 percent less than the number reported for calendar year 1985.

Ground-water levels in 790 wells measured during February and March, 1987, indicate that water levels statewide rose in 50 percent of those wells as measured for a similar period in 1986. The number of wells with water-level rises about equaled those with declines for Salt Lake and Cedar (Iron County) Valleys, all aquifers in Utah and Goshen Valleys, and the central Virgin River area. Areas with a large number of wells with water-level declines were Cache, Juab, Sanpete, and Parowan Valleys, the Milford and Beryl-Enterprise areas, and the upper and central Sevier and the Fremont River Valleys. Areas with a majority of wells with water-level rises were Tooele, Curlew, Cedar (Utah County), and Pahvant Valleys; the Sevier Desert; and the East Shore area.

REFERENCES CITED

Baumann, P.C., and May, T.M., 1984, Selenium residue levels in fish from inland waters of the United States, in Proceedings of the effects of trace elements as aquatic ecosystems, Carolina Power and Light Co., March 1982: Raleigh, North Carolina, p. 7-1 to 7-16.

Cruff, R.W., 1986, Data uses and funding sources for the stream-gaging program in Utah: U.S. Geological Survey Open-File Report 86-51, 36 p.

Enright, Michael, 1987, Seepage study of a 15.3-mile section of the Central Utah Canal, Pahvant Valley, Millard County, Utah: U.S. Geological Survey Open-File Report 87-462 (duplicated as Utah Department of Natural Resources Technical Publication No. 91), 24 p.

Gillespie, R.B., and Baumann, P.C., 1986, Effects of high tissue concentrations of selenium on reproduction by bluegills: Transactions of the American Fisheries Society, v. 115, p. 208-213.

Heinz, G.H., Hoffman, D.J., Krynitsky, A.J., and Weller, D.M.G., 1987, Reproduction in mallards fed selenium: Environmental Toxicology and Chemistry, v. 6, p. 423-433.

National Oceanic and Atmospheric Administration, Environmental Data and Information Service, 1977-87, Climatological data (annual summaries, 1976-86): Asheville, North Carolina, v. 78-88, no. 13.

Ohlendorf, H.M., Hoffman, D.J., Saiki, M.K., and Aldrich, T.W., 1986, Embryonic mortality and abnormalities of aquatic birds: Apparent impacts of selenium from irrigation drainwater; The science of the total environment, v. 52, p. 49-63.

Patuxent Wildlife Research Center, 1986, Effects of irrigation drainage contaminants on wildlife: Laurel, Maryland, Annual Report, U.S. Fish and Wildlife Service, 24 p.

Seiler, R.L., and Baskin, R.L., 1988, Hydrology of Alkali Creek and Castle Valley Ridge coal-lease tracts, central Utah, and potential effects of coal mining: U.S. Geological Survey Water-Resources Investigations Report 87-4186, 53 p.

Stephens, D.W., Waddell, Bruce, and Miller, J.B., 1988, Reconnaissance investigation of water quality, bottom sediment, and biota associated with irrigation drainage in the middle Green River basin, Utah, 1986-87: U.S. Geological Survey Water-Resources Investigations Report 88-4011, 70 p.

Untermann, G.E., and Untermann, B.B., 1954, Geology of Dinosaur National Monument and vicinity, Utah-Colorado: Utah Geological and Mineralogical Survey Bulletin 42, 228 p.

Wilberg, D.E., and others, 1987, Ground-water conditions in Utah, spring of 1987: Utah Department of Natural Resources Cooperative Investigations Report 27, 80 p.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptoccal bacteria are bacteria found also in the intestines of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter micro-organisms, such as bacteria.

Chemical-oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic foot per second (Ft^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 µm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calulation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or non-contributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Epilimnion is the uppermost region of a stratified lake which is characterized as having water of nearly uniform temperature, and dissolved oxygen concentrations generally near saturation.

Eutrophic is a condition in which the water in the lake, pond, or reservoir is enriched with plant nutrients such as nitrogen and phosphorus which results in large amounts of plant and algal production. As the plants and algae die and sink to the bottom, an organic sediment is created which removes oxygen from the water as it decays.

Eutrophication is the natural process of enrichment and aging of a body of water that may be accelerated by the activities of man. Pertains to water bodies in which primary production of high because of a large supply of available nutrients.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ($CaCo_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Hypolimnion is the lower region of a stratified lake which is characterized as having water with cooler temperatures, and low to very low concentrations of dissolved oxygen.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Meso-eutrophic is intermediate stage in lake classification between the oligotrophic and eutrophic stages, in which primary production occurs at a greater rate than in oligotrophic lakes, but at a lesser rate than in eutrophic lakes. This is due to a moderate supply of nutrients.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the the first-order level nets of both the United States and Canada, formerly called "MEAN SEA LEVEL."

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation
Silt	.004 - .062	Sedimentation
Sand	.062 - 2.0	Sedimentation or sieve
Gravel	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispertion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population in terms of types, numbers, mass or volume.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

7

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Stratification is a natural process in which bodies of standing water become colder near the bottom and warmer near the surface. The two layers are separated by a thinner middle layer characterized by a rapidly changing temperature profile.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S.G.S topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 μm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year".

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in a series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes a 2-digit part number "03" plus the 6-digit downstream order number "041000."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site number system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, assign sequential numbers "01," "02," etc. as one would for wells. See figure 11.

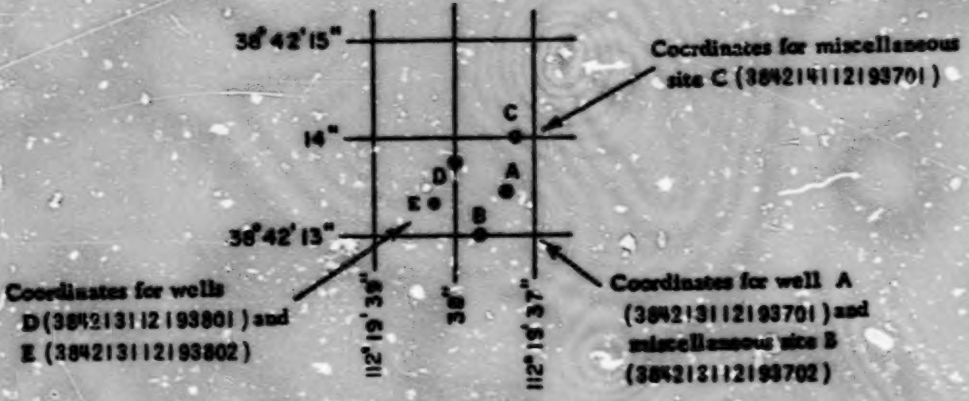
38°42'15"
14"
38°42'13"
112°19'39"
38"
112°19'37"
C
D
A
E
B
Coordinates for miscellaneous site C (384214112193701)
Coordinates for wells D(384213112193801) and E (384213112193802)
Coordinates for well A (384213112193701) and miscellaneous site B (384213112193702)

Figure 11.–System for numbering wells and miscellaneous sites (latitude and longitude).

In addition to the well number that is based on latitude and longitude given for each well, another well number is given that is based on the U.S. Bureau of Land Management's system of land subdivision. This well number is familiar to the water users of Utah and shows the location of the well by quadrant, township, range, section, and position within the section. See figure 12. The capital letter at the beginning of the location number indicates the quadrant in which the well is located. Four quadrants are formed by the intersection of the base line and the principal meridian--A indicates the northeast quadrant, B the northwest, C the southwest, and D the southeast. The first numeral indicates the township, the second the range, and the third the section in which the well is located. Lowercase letters following the section number locate the well within the section. The first letter denotes the quarter section, the second the quarter-quarter section, and the third the quarter-quarter-quarter section. The letters are assigned within the section in a counter-clockwise direction beginning with (a) in the northeast quarter of the section. Letters are assigned within each quarter section and quarter-quarter section in the same manner. Where two or more locations are within the smallest subdivision, consecutive numbers beginning with 1 are added to the letters in the order in which the wells are inventoried. For example, (C-16-9)15daa-2 indicates a well in the northeast quarter of the northeast quarter of the southeast quarter of sec. 15, T.16 S., R.9 W., and shows that this is the second well inventoried in the quarter-quarter-quarter section. The capital letter C indicates that the township is south of the Salt Lake Base Line and that the range is west of the Salt Lake Meridian.

In addition to the Salt Lake Base Line and Salt Lake Meridian, which apply to most of Utah, the Uintah Base Line and Meridian are the basis for describing locations in a small, irregularly shaped area of north-eastern Utah. The quadrants, townships, ranges, sections, and parts of sections are designated in the same way as for the Salt Lake Base Line and Meridian. For any location in the Uintah area, however, the letter "U" precedes the parenthesis.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is a network of sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

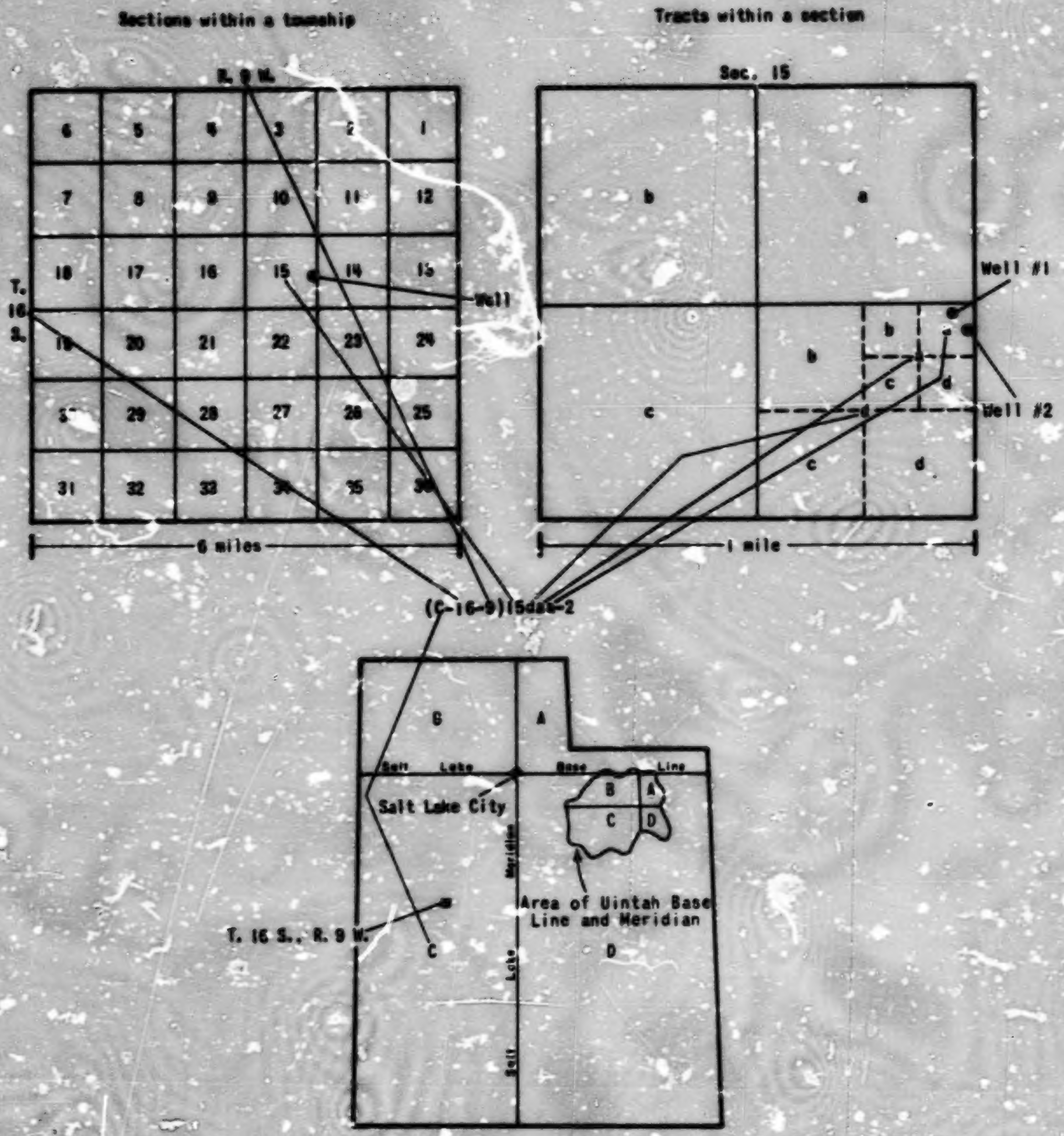
Sections within a township
R. 9 W.
6
5
4
3
2
1
7
8
9
10
11
12
18
17
16
15
14
13
T. 16 S.
19
20
21
22
23
24
30
29
28
27
26
25
31
32
33
34
35
36
Well
6 miles
Tracts within a section
Sec. 15
b
a
b
c
c
d
b
a
c
d
Well #1
Well #2
1 mile
(C-16-9)15daa-2
B
A
Salt Lake Base Line
Salt Lake City
B
A
C
D
Salt Lake Meridian
Area of Uintah Base Line and Meridian
T. 16 S., R. 9 W.
C
D

Figure 12.—System for numbering wells (township and range).

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National stream-quality accounting network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations (fig. 13) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station tabulations of the daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year which begins on October 1 and ends on September 30.

The description of the gaging stations gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information obtained later. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water years October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. For all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum of 1929; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum of 1929 is explained in "DEFINITION OF TERMS" on page 19.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than percent. Under "EXTREMES," the extremes for the period of record are given first, information available outside the period of record is given second, and those for the current year are given last. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. Peak discharges for some stations are listed with "EXTREMES FOR THE CURRENT YEAR"; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabluar format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following "EXTREMES," for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage relation, or if any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Discharge measurements made at sites other than continuous-record stations are listed in a single table.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as discharge measurements, gage-height records, and rating tables is available from the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies

Other Than the Geological Survey

Records of discharge not published by the Geological Survey, but for which an index is maintained by the Office of Water Data Coordination, were collected in Utah at 25 sites during the 1987 water year by the following agencies: Records at 13 sites were collected by the U.S. Forest Service, at 4 sites by the Weber River Distribution System; and at 2 sites by the Salt Lake County Water Conservancy District; and at 1 site each by the following: Ogden River Water Users, Clear Lake Waterfowl Management Area, Metropolitan Water District of Salt Lake City, Utah Department of Natural Resources, U.S. Army Corps of Engineers, and U.S. Bureau of Reclamation. The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia 22092, maintains an index of these sites. Information on records of specific sites can be obtained from that office upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations (fig. 14). The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, etc.); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collectng and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values for each constituent measured, and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

Specific conductance and temperature only were measured at 143 stations in Utah, usually at 1-month intervals (fig. 15). In the tables on pages 318 to 341 a few data are shown as 50 (less than) micromhos or 8,000 (more than) micromhos. Discharge records and detailed information on locations of these stations are given in this report.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once daily, the water temperatures are taken at about the same time each day. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections. During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment data were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Only ground-water level data from selected wells with continuous recorders from a basic network of observation wells are published herein (fig. 16). This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. (See figures 11 and 12.)

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either the National Geodetic Vertical Datum of 1929 or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is the datum plane on which the National network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above the National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

ACCESS TO WATSTORE DATA

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey as its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open- File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature--influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 Pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing,* by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A10. *Discharge ratings at gaging stations,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A13. *Computation of continuous records of streamflow,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J. E. Reed: USGS-TWRI Book 3, Chapter B3. 1980. 106 pages.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

3-C1. *Fluvial sediment concepts* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*. by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*. by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*. by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*. by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*. by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*. edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*. by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. *Laboratory theory and methods for sediment analysis*. by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*. by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels* by R. W. Schaffrannek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells*. by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-A2. *Installation and service manual for U.S. Geological Survey manometers* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. *Calibration and maintenance of vertical-axis type current meters*. by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

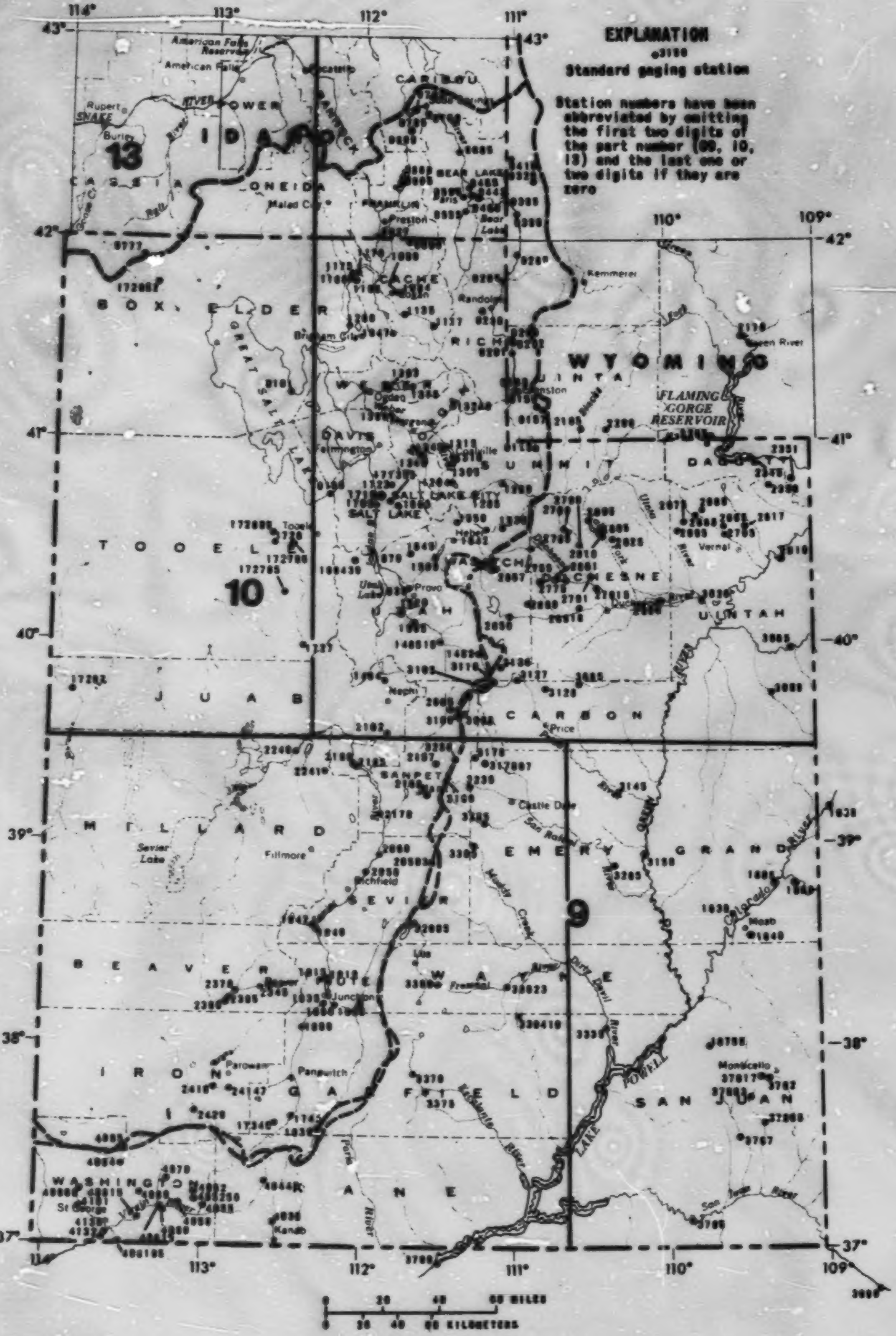
EXPLANATION
○3100
Standard gaging station
Station numbers have been abbreviated by omitting the first two digits of the part number (09, 10, 13) and the last one or two digits if they are zero
114°
113°
112°
111°
110°
109°
43°
42°
41°
40°
39°
38°
37°
IDAHO
WYOMING
13
10
9
CASSIA
ONEIDA
POWER
CARIBOU
BEAR LAKE
FRANKLIN
BOX ELDER
CACHE
RICH
WEBER
DAVIS
MORGAN
SUMMIT
UINTA
DAGGETT
SALT LAKE
TOOELE
WASATCH
DUCHESNE
UINTAH
UTAH
JUAB
CARBON
SANPETE
MILLARD
EMERY
GRAND
SEVIER
BEAVER
PIUTE
WAYNE
IRON
GARFIELD
SAN JUAN
WASHINGTON
KANE
GREAT SALT LAKE
FLAMING GORGE RESERVOIR
LAKE POWELL
SNAKE RIVER
American Falls Reservoir
American Falls
Rupert
Burley
Malad City
Preston
Logan
Randolph
Kemmerer
Green River
Brigham City
Ogden
Evanston
Farmington
Coalville
Salt Lake City
Tooele
Heber
Provo
Utah Lake
Vernal
Nephi
Price
Castle Dale
Fillmore
Sevier Lake
Richfield
Loa
Junction
Beaver
Parowan
Panguitch
Moab
Monticello
St George
Kanab
San Rafael River
Dirty Devil River
Colorado River
Green River
San Juan River
Escalante River
Fremont
0 20 40 60 MILES
0 20 40 60 KILOMETERS

Figure 13.--Map showing location of gaging stations in Utah.

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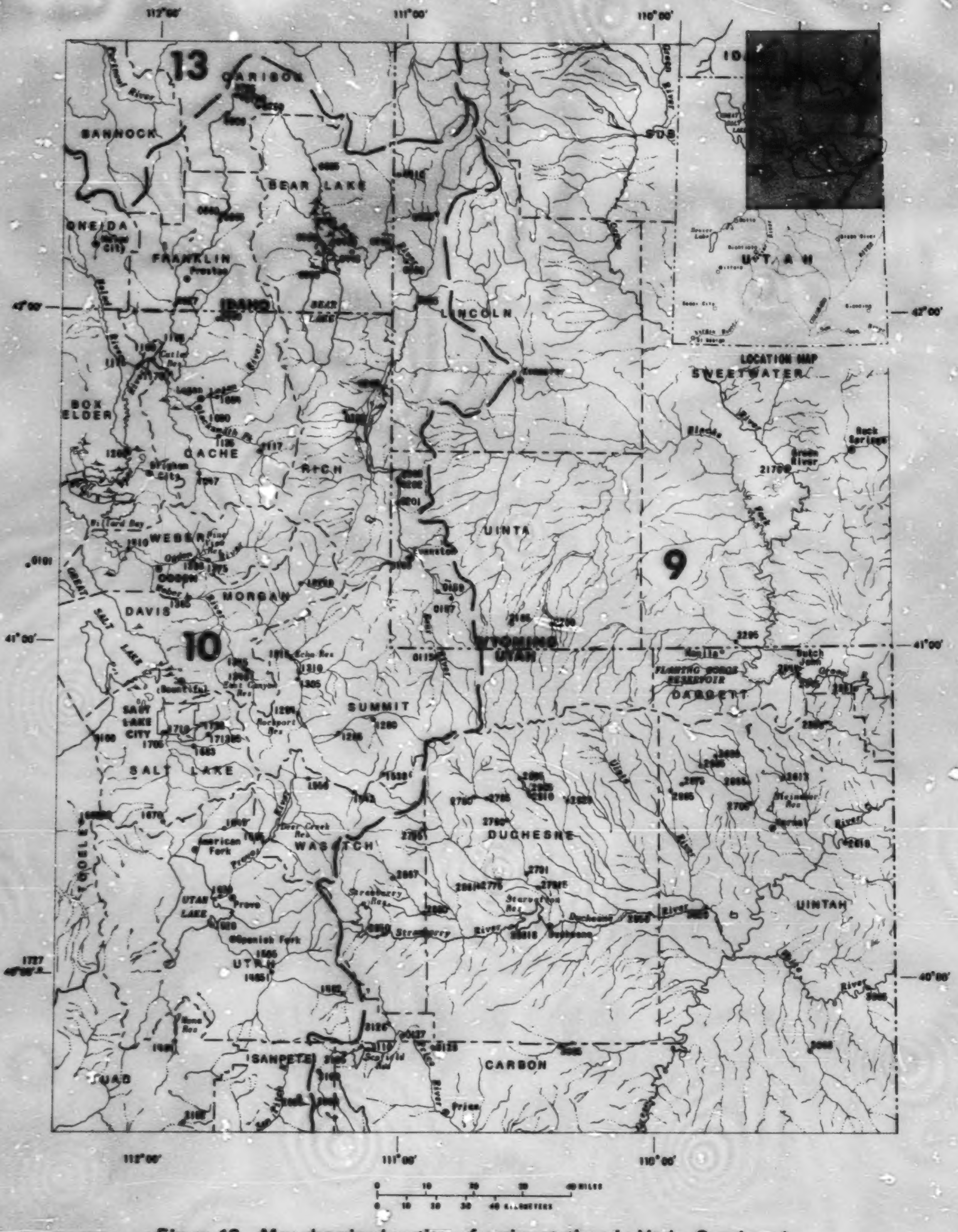
113°00'
111°00'
110°00'
42°00'
41°00'
40°00'
13
10
9
CARIBOU
BANNOCK
BEAR LAKE
ONEIDA
FRANKLIN
IDAHO
LINCOLN
BOX ELDER
CACHE
RICH
WEBER
MORGAN
DAVIS
UINTA
SWEETWATER
WYOMING
UTAH
SUMMIT
DAGGETT
SALT LAKE CITY
SALT LAKE
TOOELE
WASATCH
DUCHESNE
UINTAH
UTAH
SANPETE
JUAB
CARBON
FLAMING GORGE RESERVOIR
LOCATION MAP
0 10 20 30 40 MILES
0 10 20 30 40 KILOMETERS

Figure 13.--Map showing location of gaging stations in Utah--Continued.

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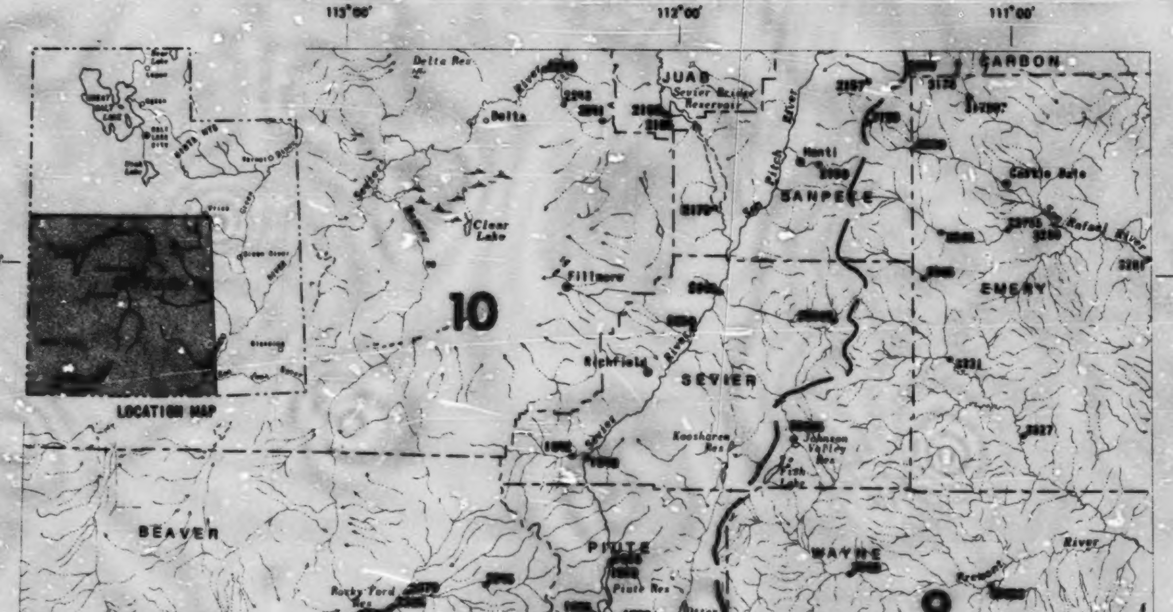
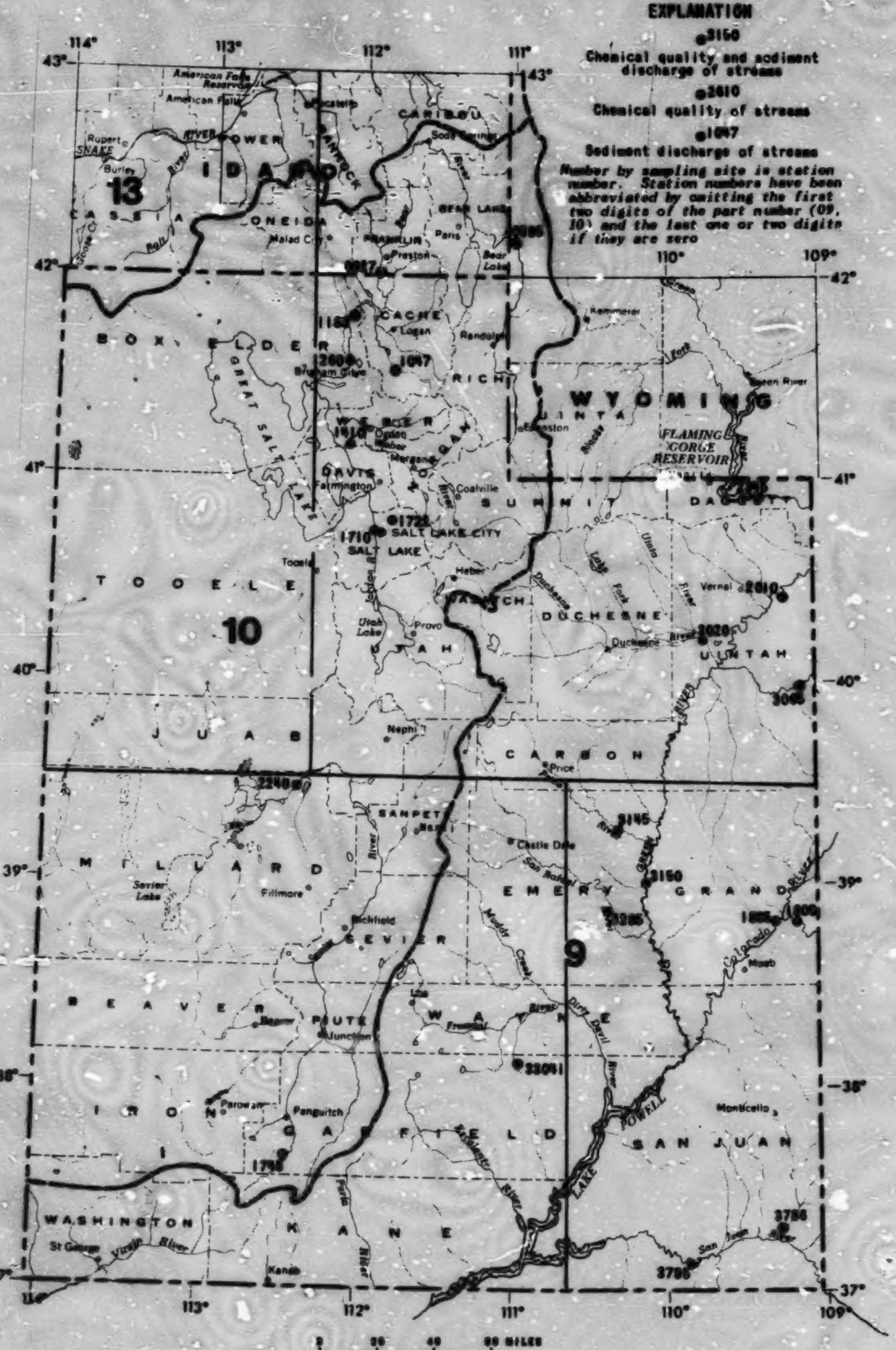

113°00'
112°00'
111°00'
39°00'
38°00'
37°00'
LOCATION MAP
10
9
CARBON
JUAB
SANPETE
EMERY
SEVIER
BEAVER
PIUTE
WAYNE
IRON
GARFIELD
WASHINGTON
KANE
SAN JUAN
Delta Res
Delta
Sevier Bridge Reservoir
Clear Lake
Fillmore
Richfield
Manti
Castle Dale
San Rafael River
San Pitch River
Koosharem Res
Johnson Valley Res
Fish Lake
Rocky Ford Res
Piute Res
Otter Creek
Fremont River
Little Salt Lake
Parowan
Panguitch
Panguitch Lake
Cedar City
Sevier River
Escalante River
Paria River
Virgin River
Santa Clara River
St George
Kanab
LAKE POWELL
San Juan River
UTAH
ARIZONA
0 10 20 30 40 MILES
0 10 20 30 40 KILOMETERS

Figure 13.—Map showing location of gaging stations in Utah—Continued.

BEST COPY AVAILABLE



EXPLANATION

●3150 Chemical quality and sediment discharge of streams

●2610 Chemical quality of streams

●1047 Sediment discharge of streams

Number by sampling site is station number. Station numbers have been abbreviated by omitting the first two digits of the part number (09, 10) and the last one or two digits if they are zero

114°
113°
112°
111°
110°
109°
43°
42°
41°
40°
39°
38°
37°
IDAHO
WYOMING
13
10
9
BOX ELDER
CACHE
RICH
WEBER
DAVIS
MORGAN
SUMMIT
DAGGETT
SALT LAKE
TOOELE
WASATCH
DUCHESNE
UINTAH
UTAH
JUAB
CARBON
MILLARD
SANPETE
EMERY
GRAND
SEVIER
BEAVER
PIUTE
WAYNE
IRON
GARFIELD
SAN JUAN
WASHINGTON
KANE
CASSIA
ONEIDA
FRANKLIN
BEAR LAKE
CARIBOU
POWER
BANNOCK
UINTA
GREAT SALT LAKE
FLAMING GORGE RESERVOIR
LAKE POWELL
SALT LAKE CITY
Ogden
Logan
Provo
Vernal
Duchesne
Price
Castle Dale
Moab
Monticello
Richfield
Fillmore
Nephi
Heber
Coalville
Tooele
Farmington
Brigham City
Randolph
Evanston
Kemmerer
Green River
Preston
Malad City
Pocatello
American Falls
Burley
Rupert
Soda Springs
Paris
Junction
Beaver
Parowan
Panguitch
Kanab
St George
Sevier Lake
Utah Lake
Bear Lake
Snake River
Green River
Colorado River
San Juan River
Virgin River
Dirty Devil River
Escalante River
Fremont River
San Rafael River
Muddy Creek
Duchesne River
Uinta River
Lake Fork
Paria River
Sevier River
Price River
Jordan River
Weber River
Bear River
Blacks Fork
1160
2600
1047
1410
1720
1710
0865
0987
2610
3020
3065
2240
3145
3150
3285
1805
1800
3304
1740
3790
3795
0 20 40 60 MILES
0 20 40 60 KILOMETERS

Figure 14.--Map showing location of surface-water-quality stations in Utah.

BEST COPY AVAILABLE

09163500 COLORADO RIVER NEAR COLORADO-UTAH STATE LINE

LOCATION.--Lat 39°07'45", long 109°01'36", in SE¼NW¼ sec.5, T.11 S., R.104 W., Mesa County, Hydrologic Unit 14010005, on right bank 0.7 mi downstream from McDonald Creek, 12 mi southwest of Mack, Colo., and 1.5 mi upstream from Colorado-Utah State line.

DRAINAGE AREA.--17,843 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1951 to current year.

REVISED RECORDS.--WRD Colo. 1974: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,325 ft above National Geodetic Vertical Datum of 1929, from topographic map. May 1951, to October 1979, water-stage recorder at site 5.7 mi upstream at different datum.

REMARKS.--No estimated daily discharge. Records good. Natural flow of stream affected by transmountain diversions, storage reservoirs, power development, and diversions for irrigation. (Records include all return flow from irrigated areas).

AVERAGE DISCHARGE.--36 years, 6,407 ft^3/s; 4,642,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,800 ft^3/s, May 27, 1984, gage height, 16.12 ft, (from highwater mark); minimum daily, 960 ft^3/s, Sept. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,500 ft^3/s at 0700 May 18, gage height, 7.58 ft; minimum daily, 3,200 ft^3/s, Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8000	7250	6210	5410	5180	5460	5310	17500	9500	7170	5040	4090
2	7920	9320	5890	5550	5160	5450	5240	18800	10400	6950	4920	3800
3	8340	7930	5890	5490	5200	5480	5340	18400	11600	6780	4760	3700
4	8870	7520	6020	5330	5320	5520	5390	16000	12000	6380	4610	3700
5	8550	7270	6080	5590	5480	5630	5580	13700	12600	6200	4310	3700
6	8190	6900	6150	5690	5250	5700	5520	12500	13100	6120	3980	3800
7	7980	6930	6470	5570	5190	5980	5230	12300	13400	5830	4150	3880
8	7970	7120	6370	5490	5210	6300	5590	13000	14200	5490	4380	3860
9	7930	6850	6240	5270	5260	6750	6040	13700	16000	5280	4550	3840
10	7750	6750	6320	5230	5290	7200	6540	14200	17700	5050	4560	3840
11	8140	6780	5830	5060	5380	7070	6670	14700	16[illegible]00	4820	4350	3760
12	9590	6630	5440	5040	5610	6800	6970	15000	14600	4940	4090	3720
13	9240	6600	5840	5150	5640	6690	7180	16100	13600	4970	3960	3680
14	8610	6550	5880	5110	6260	6970	6550	16300	13000	4990	3910	3700
15	8530	6480	5970	4980	6670	6800	6240	17100	12900	4840	3870	39[illegible]
16	8380	6590	6040	4790	5830	6920	6820	19100	13000	4610	3900	4040
17	8240	6570	6140	4590	5580	6880	8360	21000	12500	4650	3880	4070
18	8130	6580	5990	4560	5530	6610	10400	22000	11600	4740	3750	4100
19	8110	6560	5890	4460	5650	6430	12200	21500	10500	4770	3340	4110
20	8020	8300	5990	4930	5570	6660	12700	20000	9740	4570	3250	4070
21	7650	7580	5990	5430	5510	6400	11800	18400	8990	4520	3220	4060
22	7210	7120	5940	4470	5460	6300	10100	17400	8460	4480	3200	4020
23	6530	7040	5750	4450	5470	6250	9710	15400	8060	4130	3370	3970
24	6430	6680	5650	4700	5550	5990	11300	14500	7830	3980	4070	3870
25	6330	6320	5700	4910	5530	5830	13300	14000	7470	3970	5240	3900
26	6280	6400	5620	5000	5510	5760	14400	13200	7050	3800	5380	3920
27	6210	6420	5390	5020	5670	5630	15000	12600	6720	3750	5080	3870
28	6110	6290	5390	5240	5540	5600	15900	11700	6510	3960	4780	3880
29	6000	6180	5520	5410	---	5500	16600	10800	6500	4270	4500	3920
30	5960	6230	5610	5430	---	5470	16900	10400	6750	4740	4350	3960
31	6620	---	5530	5260	---	5350	---	9830	---	4890	4250	---
TOTAL	237820	207740	182720	158610	154480	191380	274860	481130	332280	155720	130960	116760
MEAN	7672	6926	5894	5116	5517	6174	9163	15520	11080	5023	4225	3892
MAX	9590	9320	6470	5690	6670	7200	16900	22000	17700	7170	5380	4110
MIN	5960	6180	5390	4450	5160	5350	5230	9830	6500	3750	3200	3680
AC-FT	471700	412100	362400	314600	306400	379600	545200	954300	659100	308900	259800	231600

CAL YR 1986 TOTAL 3815830 MEAN 10450 MAX 32800 MIN 4620 AC-FT 7569000
WTR YR 1987 TOTAL 2624480 MEAN 7190 MAX 22000 MIN 3200 AC-FT 5206000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Colorado, 1987."

09180000 DOLORES RIVER NEAR CISCO, UT

LOCATION.--Lat 38°47'50", long 109°11'40", in SW¼SE¼ sec.18, T.23 S., R.25 E., Grand County, Hydrologic Unit 14030004, on left bank 0.2 mi downstream from Line Canyon, 9.1 mi upstream from mouth, 13.5 mi downstream from Colorado-Utah State line, and 13.[illegible] mi southeast of Cisco.

DRAINAGE AREA.--4,580 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1733.

REVISED RECORDS.- WDR UT-75-1: 1974.

GAGE.--Water-stage recorder. Altitude of gage is 4,185 ft from river-profile map. Dec. 6, 1950 to Apr. 18, 1967, at site 200 ft downstream at different datum; Apr. 19, 1967 to Sept. 3, 1975 at site 10 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Macphee Reservoir, capacity, 381,000 acre-ft, since 1986. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--36 years (1951-86), 845 ft³/s, 612,200 acre-ft/yr, prior to construction of Macphee Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s Apr. 21, 1958, gage height, 9.84 ft at different datum; minimum, 3.4 ft³/s Sept. 23, 1956.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 27	1430	*8,440	*11.70	Aug. 25	0135	4,160	10.19
May 21	2035	6,060	11.22				

Minimum discharge, 117 ft³/s Aug. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	648	836	374	e440	462	453	7090	e2480	1890	e900	e520
2	429	1240	751	404	e440	472	477	7290	e2400	1590	e800	e480
3	446	1080	728	454	e450	492	549	6630	e2200	1360	e750	453
4	441	798	751	426	e470	507	891	5660	e2500	1140	e600	435
5	408	710	752	435	e490	524	1160	5240	e2800	1050	551	423
6	383	877	771	518	e480	552	e1600	5150	e2900	954	501	428
7	367	930	867	483	e450	669	e1680	5040	e3200	910	485	418
8	366	932	872	462	e440	835	e1900	5000	e3500	887	750	414
9	352	898	809	430	e460	e1300	e3300	5020	e3600	833	726	413
10	339	833	754	383	e470	e1700	e3500	4880	e3600	804	608	408
11	374	832	635	330	e480	1290	e4400	4760	e3400	797	506	391
12	e1160	792	569	322	e500	1280	e5300	4720	e3700	775	455	362
13	e980	602	499	e320	e540	e1090	e5100	4920	e3800	739	425	338
14	712	520	500	e345	e560	1130	e4300	5100	e3300	705	42[illegible]	357
15	611	500	583	e330	e680	1310	e3400	5200	e3600	688	384	368
16	581	475	610	e335	e570	1230	e3600	5180	e3500	683	354	367
17	812	499	594	e325	e550	1110	e4900	5090	e3300	699	332	358
18	823	502	576	e330	e530	1050	e4400	5030	e3000	775	288	298
19	819	575	535	e325	e560	1030	e4800	5350	e2800	810	304	282
20	824	1680	675	e320	e580	1060	e5200	5090	e2700	658	286	226
21	850	1550	538	e310	e570	1060	e5600	5550	e2600	582	290	207
22	832	1290	536	e300	e550	992	e6000	5170	e2500	548	342	200
23	815	1080	516	e310	e560	1020	e6200	4360	e2500	587	323	189
24	777	1050	490	e330	e580	966	6570	4130	e2400	605	1000	177
25	579	1140	498	e330	554	904	7000	4000	e2300	565	2730	173
26	613	1210	451	e340	538	e820	7320	3840	e2200	560	1520	168
27	640	1090	470	e340	535	739	7280	3730	e2200	607	1140	195
28	632	841	443	e350	485	629	7230	2960	e2100	656	844	215
29	624	830	431	e400	---	594	7000	2760	e2100	867	e720	179
30	563	838	413	e400	---	519	7060	e2680	2250	859	e660	172
31	539	---	376	e420	---	441	---	e2530	---	1410	e510	---
TOTAL	19123	26822	18779	11483	14512	27777	127070	149150	85430	26631	20605	9594
MEAN	617	894	606	370	518	896	4236	4811	2848	859	665	320
MAX	1160	1680	872	518	680	1700	7320	7290	3800	1890	2730	520
MIN	339	475	376	300	440	441	453	2530	2100	548	286	168
AC-FT	37930	53200	37250	22780	28780	55100	252000	295800	169500	52820	40870	19030

CAL YR 1986 TOTAL 466433 MEAN 1278 MAX 7430 MIN 182 AC-FT 925200
WTR YR 1987 TOTAL 536976 MEAN 1471 MAX 7320 MIN 168 AC-FT 1065000

e Estimated

09180000 DOLORES RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RFCORDS

PERIOD OF RECORD.--March 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.
WATER TEMPERATURES: March 1951 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: March 1951 to December 1963, October 1957 to September 1964.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 21,600 microsiemens July 9, 1977; minimum, 240 microsiemens June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C Aug. 14, 1958, July 10, 1977; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEA[illegible]
SPECIFIC CONDUCTANCE[illegible]imum, 5,000 microsiemens Sept. 28; minimum, 360 microsiemens Apr. 27, 28, May 1.
WATER TEMPERATURES: [illegible]imum, 26.0°C Aug. 4, 5; minimum, 0.0°C several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1986											
22...	1030	838	830	8.20	12.5	10.0	--	10.0	650	--	--
NOV											
17...	1100	513	2010	8.30	12.5	7.0	0.20	10.5	650	10	87
FEB , 1987											
24...	1140	605	2200	8.20	4.0	3.5	--	11.7	640	--	--
APR											
23...	1000	6120	390	8.40	16.0	9.5	250	10.3	560	--	--
MAY											
22...	1080	4880	390	8.30	16.0	13.0	--	8.8	660	20	150
JUN											
29...	1130	2120	450	8.50	23.0	18.0	17	7.7	655	27	200
JUL											
23...	1000	618	1100	8.40	27.0	20.5	5.5	7.5	660	--	--
AUG											
20...	1030	296	1530	8.50	25.0	20.0	28	7.6	660	180	330
SEP											
02...	1030	496	1710	8.40	23.0	19.5	--	7.7	660	--	--

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD MG/L AS HCO3	CARBONATE WH WAT TOTAL FIELD MG/L AS CO3
OCT , 1986										
22...	230	110	59	21	82	43	2	4.9	--	--
NOV										
17...	350	200	81	35	270	62	7	13	160	10
FEB , 1987										
24...	390	240	86	43	290	61	7	14	--	--
APR										
23...	170	69	47	13	18	18	0.6	2.8	110	4
MAY										
22...	--	--	--	--	--	--	--	--	140	--
JUN										
29...	150	57	43	11	29	29	1	2.3	110	4
JUL										
23...	240	120	63	20	130	53	4	6.6	140	4
AUG										
20...	280	150	71	26	180	57	5	9.6	160	4
SEP										
02...	320	190	83	27	210	58	5	10	--	--

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)
OCT , 1986										
22...	--	150	110	0.20	6.7	515	510	0.70	1170	--
NOV										
17...	149	250	430	0.20	7.3	--	1200	1.6	1640	0.230
FEB , 1987										
24...	--	280	420	0.30	6.4	1270	1200	1.7	2070	--
APR										
23...	102	85	11	0.10	7.8	248	250	0.34	4100	--
MAY										
22...	108	--	--	--	--	--	--	--	--	--
JUN										
29...	96	73	36	0.10	6.3	261	260	0.35	1490	--
JUL										
23...	120	120	190	0.30	4.7	644	610	0.88	1070	--
AUG										
20...	138	190	260	0.40	6.3	893	830	1.2	714	0.260
SEP										
02...	--	230	290	0.30	7.7	1010	930	1.4	1350	--

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT , 1986										
22...	--	0.250	--	--	--	--	--	--	--	<0.010
NOV										
17...	0.010	0.240	0.210	0.190	0.24	0.59	0.80	0.020	0.020	<0.010
FEB , 1987										
24...	--	0.250	--	0.320	0.41	--	--	--	--	<0.010
APR										
23...	<0.010	<0.100	0.050	0.010	0.01	1.7	1.8	0.040	0.020	<0.010
MAY										
22...	<0.010	0.100	0.090	0.060	0.08	1.4	1.5	0.720	0.020	<0.010
JUN										
29...	<0.010	<0.100	0.030	<0.010	--	0.47	0.50	0.080	<0.010	<0.010
JUL										
23...	<0.010	<0.100	0.040	0.040	0.05	0.66	0.70	0.020	0.010	<0.010
AUG										
20...	0.010	0.270	<0.010	0.010	0.01	1.1	1.1	0.050	0.060	<0.010
SEP										
02...	--	0.260	--	0.030	0.04	--	--	--	--	<0.010

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV , 1986											
17...	1100	<10	<1	110	<0.5	<1	<1	<1	3	4	<5
APR , 1987											
23...	1000	30	1	70	<0.5	2	<1	<3	2	31	<5
JUN											
29...	1130	10	<1	130	<0.5	<1	1	<3	1	16	<5
JUL											
23...	1000	<10	<1	100	<0.5	<1	<1	<3	2	<3	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV , 1986										
17...	39	22	<0.1	4	3	1	<1	1000	4	8
APR , 1987										
23...	18	5	<0.1	<10	<1	1	<1	390	<6	17
JUN										
29...	18	2	0.3	<10	4	<1	1	460	<6	12
JUL										
23...	28	5	<0.1	<10	3	16	2	820	<6	29

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT , 1986		
22...	1030	70
FEB , 1987		
24...	1140	70
SEP		
02...	1030	70

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1710	---	1060	1790	1830	2050	2120	360	570	465	1390	1650
2	1890	1130	1080	1860	1950	2410	---	370	---	550	910	1710
3	1810	1190	1140	1920	1990	2430	2170	385	550	640	---	1770
4	1760	---	1180	2250	2040	2420	1960	410	520	680	1140	1840
5	1770	1480	1140	---	2090	2330	1610	415	485	870	1200	1880
6	1820	---	---	1970	---	2270	---	405	480	910	1230	1930
7	1910	---	---	1790	1660	2240	900	395	460	970	1260	1900
8	---	980	1180	1690	1750	---	730	395	445	950	1310	1920
9	1860	930	1230	2030	1960	---	710	405	470	---	1020	---
10	---	950	1250	2210	2090	1430	---	405	470	---	---	1960
11	---	960	1280	1940	---	---	690	395	465	960	1070	2030
12	---	990	1240	---	---	1040	570	400	---	940	1080	2030
13	1330	1000	1360	1880	2040	990	---	420	415	950	1350	---
14	920	1160	1400	---	---	1050	500	415	395	950	1410	---
15	1060	1580	1520	2440	1690	1040	510	410	---	990	1500	2240
16	1350	1830	1600	---	1570	1020	470	420	380	980	1540	2190
17	1670	1930	1530	2280	1610	1090	415	---	380	950	1530	2150
18	1220	2130	1360	2180	1930	1190	410	450	380	1020	1520	2180
19	910	---	1390	2060	2090	1180	395	430	380	960	1540	2180
20	880	1200	1450	1990	2210	---	390	---	390	960	1540	2090
21	870	840	1550	2270	2280	1160	410	---	405	950	1590	2450
22	860	980	1590	2620	2280	1120	425	395	430	1020	1630	3150
23	920	950	---	---	2180	1190	410	435	435	1130	1600	3570
24	900	860	1660	2280	2200	1210	370	---	---	1080	---	---
25	900	900	1660	2400	---	1220	365	---	435	1010	1270	4350
26	1050	850	1640	2570	---	---	365	455	430	1050	850	4580
27	1560	830	---	2350	2110	1260	360	455	430	1030	630	4750
28	1430	780	---	1930	---	1310	360	485	435	---	750	5000
29	---	1010	---	1850	---	1330	365	510	455	---	970	4610
30	1110	1040	1770	1860	---	1570	365	550	445	1050	1380	4880
31	---	---	1790	---	---	1650	---	560	---	1160	1620	---
MEAN	1340	1140	1400	2100	---	1510	710	430	445	930	1280	2730

09180000 DOLORES RIVER NEAR CISCO, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	---	5.0	.0	2.0	8.0	12.0	14.0	19.0	22.0	25.0	22.0
2	15.0	10.0	5.0	.0	3.0	8.0	---	14.0	---	22.0	25.0	19.5
3	15.0	7.0	5.0	1.0	3.0	8.0	12.0	14.0	20.0	22.0	---	22.0
4	15.0	---	5.0	1.0	4.0	10.0	12.0	14.0	20.0	22.0	26.0	22.0
5	15.0	6.0	5.0	---	4.0	10.0	12.0	16.0	20.0	23.0	26.0	22.0
6	15.0	---	---	1.0	---	10.0	---	16.0	20.0	23.0	25.0	22.0
7	15.0	---	---	1.0	5.0	10.0	12.0	16.0	20.0	23.0	25.0	22.0
8	---	5.0	4.0	1.0	4.0	---	12.0	17.0	20.0	24.0	24.0	22.0
9	11.0	5.0	4.0	1.0	6.0	---	14.0	17.0	20.0	---	25.0	---
10	---	5.0	1.0	1.0	6.0	10.0	---	17.0	20.0	---	---	22.0
11	---	4.0	1.0	1.0	---	---	14.0	17.0	20.0	24.0	25.0	21.0
12	---	5.0	.0	---	---	8.0	12.0	17.0	---	24.0	25.0	21.0
13	8.0	6.0	.0	---	6.0	8.0	---	17.0	21.0	24.0	24.0	---
14	8.0	6.0	.0	---	---	9.0	12.0	15.0	21.0	24.0	24.0	---
15	8.0	6.0	.0	.0	6.0	9.0	12.0	15.0	---	24.0	23.0	21.0
16	8.0	6.0	.0	---	6.0	9.0	12.0	15.0	22.0	24.0	23.0	20.0
17	8.0	6.0	.0	.0	6.0	8.0	12.0	---	22.0	24.0	23.0	20.0
18	10.0	6.0	2.0	.0	5.0	9.0	12.0	15.0	22.0	24.0	24.0	20.0
19	12.0	---	2.0	.0	5.0	9.0	12.0	15.0	22.0	24.0	24.0	18.0
20	11.0	6.0	2.0	.0	5.0	---	12.0	---	22.0	24.0	24.0	18.0
21	12.0	6.0	2.0	.0	5.0	8.0	12.0	---	22.0	24.0	24.0	18.0
22	12.0	6.0	2.0	.0	5.0	8.0	14.0	14.0	22.0	24.0	23.0	18.0
23	12.0	6.0	---	---	4.0	8.0	14.0	14.0	22.0	24.0	23.0	18.0
24	12.0	6.0	2.0	.0	3.5	8.0	14.0	14.0	---	25.0	---	---
25	12.0	6.0	2.0	.0	---	10.0	14.0	---	22.0	25.0	21.0	18.0
26	12.0	6.0	2.0	.0	---	---	14.0	18.0	22.0	25.0	21.0	18.0
27	12.0	6.0	---	.0	8.0	11.0	14.0	18.0	22.0	24.0	21.0	18.0
28	12.0	6.0	---	.0	---	11.0	14.0	19.0	22.0	---	21.0	18.0
29	---	6.0	---	.0	---	11.0	14.0	18.0	22.0	---	21.0	17.0
30	12.0	5.0	.0	.0	---	11.0	14.0	18.0	22.0	23.0	21.0	17.0
31	---	---	.0	.0	---	11.0	---	18.0	---	23.0	21.0	---
MEAN	12.0	6.0	2.0	.5	---	9.0	13.0	16.0	21.0	23.5	23.5	20.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAR , 1987						
26...	1100	791	8.0	97	274	585
APR						
23...	1000	6120	9.5	73	2040	33700
MAY						
22...	1050	4880	13.0	82	1090	14400
JUN						
29...	1130	2120	18.0	95	76	435
JUL						
23...	1000	618	20.5	100	18	30
AUG						
20...	1030	296	20.0	99	54	43

09180500 COLORADO RIVER NEAR CISCO, UT

LOCATION.--Lat 38°49'38", long 109°17'34", in NW¼NW¼ sec.17, T.23 S., R.24 E., Grand County, Hydrologic Unit 14030005, on left bank 1 mi downstream from Dolores River, 11 mi south of Cisco, 36 mi downstream from Colorado-Utah State line, 97 mi upstream from Green River, and 235 mi upstream from San Juan River, at mile 1,022.3 from Arizona-Sonora.

DRAINAGE AREA.--24,100 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1895 to current year (1895 to 1910, calender-year estimates only). Monthly discharge only for some periods, published in WSP 1313. Published as Grand River near Moab, October 1913 to November 1914, and as Grand River near Cisco, November 1914 to September 1917.

REVISED RECORDS.--WSP 918: 1913, 1937. WSP 1313: 1918-22.

GAGE.--Water-stage recorder. Altitude of gage is 4,090 ft from river-profile map. Prior to Nov. 10, 1914, several staff and chain gages at bridge near Moab, 31 mi downstream at datum, 3,937.73 ft above mean sea level.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions above station for irrigation and power, including several transmountain diversions. Flow regulated by Blue Mesa Reservoir (see station 09124600) since Nov. 27, 1965.

AVERAGE DISCHARGE.--76 years (1911-87), 7,781 ft^3/s, 5,637,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft^3/s June 19, 1917, gage height, 19.7 ft; minimum recorded, 558 ft^3/s July 21, 1934, gage height, 0.44 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on July 4, 1884 reached a discharge of about 125,000 ft^3/s, from flood record at Fruita, Colorado.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 26,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 18	1915	*30,800	*10.11	No other peak greater than base discharge.			

Minimum discharge, 2,920 ft^3/s Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8260	7310	7140	5870	5730	5830	5850	23200	12100	8960	6760	5040
2	8110	9960	6870	5920	5730	5820	5700	24400	12500	8610	6530	4590
3	8520	9180	6650	6020	5740	5850	5860	24400	13700	8260	6050	4260
4	9060	8140	6760	5880	5910	5920	6100	22000	14400	7720	5900	4170
5	8840	7540	7070	6060	6140	6020	6660	19500	15000	7320	5410	4150
6	8450	7530	7140	6390	6060	6140	7280	17900	15400	7220	4930	4210
7	8100	7310	7450	6410	5770	6480	7080	17200	15900	6880	5200	4350
8	8060	7600	7570	6280	5680	7020	7410	17300	16500	6420	5310	4370
9	7990	7430	7240	6190	5730	7930	8190	18000	17900	6000	5690	4310
10	7860	7040	7210	5860	5760	8760	9600	18100	20100	5630	e5700	4330
11	8110	7270	6770	5560	5800	8650	10900	18500	19100	5380	5430	4210
12	10200	7080	5950	5490	5980	8350	12100	18700	18300	5380	4970	4070
13	10500	6840	6350	e5350	6140	8100	12300	19500	17200	5510	4510	3950
14	9430	6650	6380	e5400	6700	8130	10400	20200	16300	5500	4510	3960
15	9150	6560	6560	e5300	7790	8330	9370	20600	16000	5460	4370	4200
16	9000	6530	6700	e5200	6760	8220	10600	22300	16300	5180	4310	4450
17	9060	6650	6700	e4700	6200	8230	13300	25500	16100	5210	4130	4490
18	8920	6690	6660	e4700	5940	7860	16100	29900	15000	5330	4060	4490
19	8890	6710	6630	e4650	6070	7550	18200	30500	13800	5540	3580	4420
20	8800	8790	6590	e5100	6010	7870	18300	29300	12700	5320	3150	4390
21	8760	9660	6640	e5500	5940	7570	16800	28100	11600	5210	3020	4300
22	7920	8560	6580	e4700	5840	7280	15300	26700	10900	5070	3010	4230
23	7220	8260	6400	e4800	5830	7490	15100	23500	10400	4820	3000	4200
24	6980	7940	6180	e4900	5930	7160	16400	21100	9930	4680	4160	4060
25	6670	7700	6200	e5200	6010	6940	18500	19700	9510	e4500	7950	4020
26	6550	7670	6140	e5200	5840	6770	20000	18200	9000	4380	7690	4060
27	6540	7810	5950	e5400	6130	6650	20500	16900	8530	4230	6900	4100
28	6430	7330	5860	e5600	5980	6390	21300	15000	8250	4330	6210	4100
29	6310	7090	5920	e5800	---	6270	22000	13800	7950	5430	5730	4030
30	6140	7090	6000	e5700	---	6120	22600	13100	8390	6040	5440	3990
31	6540	---	5970	5860	---	5860	---	12700	---	6980	5190	---
TOTAL	251370	228020	204230	170990	169140	221560	389800	645800	408760	182500	158800	127500
MEAN	8109	7601	6588	5516	6041	7147	12990	20830	13630	5887	5123	4250
MAX	10500	9960	7570	6410	7790	8760	22600	30500	20100	8960	7950	5040
MIN	6140	6530	5860	4650	5680	5820	5700	12700	7950	4230	3000	3950
AC-FT	498600	452300	405100	339200	335500	439500	773200	1281000	810800	362000	315000	252900

CAL YR 1986	TOTAL	4118770	MEAN	11280	MAX	34100	MIN	4450	AC-FT	8170000
WTR YR 1987	TOTAL	3158470	MEAN	8653	MAX	30500	MIN	3000	AC-FT	6265000

e Estimated

09180500 COLORADO RIVER NEAR CISCO, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1928 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to September 1952, October 1954 to September 1981, March 1982 to current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,820 microsiemens Dec. 13, 195[illegible]; minimum daily, 291 microsiemens May 31, 1953.
WATER TEMPERATURES: Maximum, 29.0°C July 29, 1966; minimum, 0.0°C on many days during winter period most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 69,000 mg/L Oct. 27, 1951; minimum daily mean, 4 mg/L Aug. 22, 1960.
SEDIMENT LOADS: Maximum daily, 2,790,000 tons Oct. 14, 1941; minimum daily, 14 tons Aug. 22, 1960.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,450 microsiemens Aug. 24; minimum daily, 420 microsiemens May 19.
WATER TEMPERATURES: Maximum, 25.0°C July 26, Aug. 4, 5; minimum observed, 0.0°C several days in January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1986											
21...	1300	8880	930	8.30	15.0	10.0	--	10.0	660	--	--
NOV											
20...	1200	9050	1190	8.40	7.0	7.5	75	10.5	560	<1	<1
DEC											
19...	1300	6310	1000	8.20	12.0	2.0	--	11.8	660	--	--
FEB , 1987											
24...	1200	5760	1060	8.50	8.0	3.5	--	11.6	650	--	--
APR											
20...	1030	18000	440	8.20	11.0	9.0	350	10.2	660	--	--
MAY											
21...	1130	28500	445	8.30	14.5	15.0	--	8.4	657	7	27
JUN											
25...	1000	9030	610	8.40	27.0	19.0	20	7.7	660	43	110
JUL											
22...	0930	4790	1100	8.30	29.0	20.5	6.4	7.4	660	--	--
AUG											
19...	1000	3400	1230	8.50	24.5	20.0	32	7.7	660	--	--
SEP											
02...	1300	4500	1380	8.40	30.5	21.5	--	7.1	660	--	--

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD MG/L AS HCO3	CARBONATE WH WAT TOTAL FIELD MG/L AS CO3	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3
OCT , 1986											
21...	280	150	72	25	69	34	2	3.2	--	--	--
NOV											
20...	310	180	75	29	110	43	3	4.9	140	4	124
DEC											
19...	290	--	72	26	88	40	2	3.6	--	--	--
FEB , 1987											
24...	280	140	70	26	98	43	3	4.6	--	--	--
APR											
20...	180	73	49	13	25	23	0.9	2.6	130	--	103
MAY											
21...	--	--	--	--	--	--	--	--	120	--	101
JUN											
25...	220	110	58	17	42	30	1	2.4	130	4	110
JUL											
22...	360	220	95	30	89	35	2	4.2	160	10	142
AUG											
19...	390	240	100	34	100	35	2	4.7	180	2	150
SEP											
02...	450	300	120	37	120	36	3	5.3	--	--	--

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1986 21...	220	62	0.30	9.7	552	540	0.75	13200	--	--
NOV 20...	240	130	0.30	8.6	714	680	0.97	17400	--	<0.010
DEC 19...	220	93	0.30	9.9	595	--	0.81	10100	--	--
FEB , 1987 24...	210	110	0.30	9.1	639	610	0.87	9940	--	--
APR 20...	99	14	0.20	8.2	261	270	0.35	13300	--	<0.010
MAY 21...	--	--	--	--	--	--	--	--	--	<0.010
JUN 25...	140	40	0.20	7.8	374	380	0.51	9120	--	<0.010
JUL 22...	280	88	0.30	10	718	700	0.98	9290	--	<0.010
AUG 19...	330	100	0.40	9.9	836	770	1.1	7670	0.760	0.010
SEP 02...	390	120	0.40	11	906	890	1.2	11000	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT , 1986 21...	0.440	--	--	--	--	--	--	--	0.040	0.12
NOV 20...	0.430	0.050	0.040	0.05	0.75	0.80	0.040	0.020	<0.010	--
DEC 19...	0.530	--	0.050	0.06	--	--	--	--	<0.010	--
FEB , 1987 24...	0.350	--	0.060	0.08	--	--	--	--	0.020	0.06
APR 20...	0.120	0.070	0.040	0.05	2.3	2.4	0.040	0.020	<0.010	--
MAY 21...	0.270	0.050	0.030	0.04	1.0	1.1	0.470	0.030	0.010	0.03
JUN 25...	0.290	0.030	<0.010	--	0.27	0.30	0.080	<0.010	0.020	0.06
JUL 22...	0.180	0.030	0.030	0.04	0.67	0.70	0.130	0.020	<0.010	--
AUG 19...	0.770	<0.010	0.020	0.03	--	0.60	0.080	0.060	0.010	0.03
SEP 02...	0.790	--	0.020	0.03	--	--	--	--	<0.010	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV , 1986 20...	1200	<10	1	87	<0.5	<1	<1	<3	4	6	<5
APR , 1987 20...	1030	50	<1	120	<0.5	1	<1	<3	2	38	<5
JUN 25...	1000	<10	1	78	<0.5	<1	1	<3	<1	19	<5
JUL 22...	0930	<10	1	130	<0.5	<1	<1	<3	2	<3	<5

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV , 1986										
20...	37	12	<0.1	<10	3	4	<1	830	<6	32
APR , 1987										
20...	17	9	<0.1	<10	<1	1	<1	430	<6	100
JUN										
25...	26	3	<1.0	<10	<1	2	<1	580	<6	24
JUL										
22...	45	1	0.2	<10	3	10	<1	1000	<6	<3

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1986		
21...	1300	60
DEC		
19...	1300	70
FEB , 1987		
24...	1200	50
SEP		
02...	1300	100

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	960	1020	940	910	980	910	910	450	730	890	1140	1240
2	940	930	930	920	930	920	950	460	720	880	1090	1240
3	970	1120	940	910	940	930	980	465	670	870	1100	1250
4	950	1030	930	940	930	920	970	475	620	860	1110	1280
5	940	1000	940	---	950	930	950	500	600	890	1110	1320
6	920	990	910	900	910	910	960	540	580	890	1120	1330
7	920	960	910	910	960	920	940	560	560	900	1130	1340
8	920	980	910	910	920	910	920	550	560	910	1180	1340
9	920	960	990	870	940	870	910	540	540	930	1120	1330
10	910	950	980	910	940	840	870	540	540	930	1130	1310
11	940	940	950	890	930	830	820	520	530	970	1120	1350
12	930	950	920	920	930	830	800	510	540	990	1120	1340
13	940	940	910	900	920	810	790	430	560	1030	1150	1360
14	920	950	930	950	940	830	810	495	570	1040	1180	1340
15	900	980	940	990	920	800	870	485	580	1050	1210	1370
16	920	960	930	980	900	810	830	590	590	1040	1230	1370
17	930	940	910	990	1010	810	770	465	580	1030	1230	1330
18	900	960	910	950	960	820	670	440	600	1050	1220	1310
19	880	950	900	970	970	840	620	420	610	1070	1230	1300
20	870	980	910	970	970	820	570	440	640	1070	1260	1290
21	870	950	910	980	940	840	540	465	670	1070	1290	1280
22	900	900	910	1020	930	850	570	495	700	1080	1380	1320
23	970	880	---	970	890	850	580	540	730	1110	1390	1330
24	1010	890	910	950	940	860	570	560	760	1110	1450	1340
25	1020	910	920	940	920	870	530	570	750	1100	1360	1350
26	1030	900	930	960	930	850	500	590	770	1100	1270	1380
27	1050	910	940	920	900	870	480	610	800	1180	1250	1410
28	1030	930	950	880	920	870	470	630	800	---	1270	1420
29	1030	940	930	880	---	900	460	660	840	1170	1260	1380
30	1040	930	950	910	---	920	460	690	870	1100	1280	1390
31	1030	---	930	930	---	890	---	700	---	1230	1280	---
MEAN	950	950	930	930	940	860	740	530	650	1020	1220	1330

09180500 COLORADO RIVER NEAR CISCO, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	9.0	5.0	1.0	2.0	6.0	11.0	14.0	19.0	22.0	24.0	20.0
2	14.0	9.0	5.0	1.0	3.0	7.0	11.0	15.0	20.0	22.0	24.0	21.0
3	14.0	7.0	5.0	1.0	3.0	7.0	11.0	15.0	20.0	22.0	24.0	21.0
4	14.0	7.0	4.0	2.0	4.0	8.0	11.0	15.0	20.0	22.0	25.0	21.0
5	14.0	6.0	4.0	2.0	4.0	8.0	11.0	15.0	20.0	23.0	25.0	21.0
6	14.0	6.0	5.0	2.0	5.0	8.0	11.0	15.0	20.0	23.0	24.0	21.0
7	14.0	5.0	5.0	2.0	5.0	10.0	11.0	15.0	20.0	23.0	24.0	21.0
8	12.0	5.0	5.0	2.0	5.0	10.0	11.0	16.0	20.0	24.0	24.0	21.0
9	10.0	5.0	5.0	2.0	6.0	10.0	11.0	16.0	20.0	24.0	24.0	21.0
10	9.0	5.0	2.0	2.0	6.0	8.0	12.0	16.0	20.0	24.0	24.0	21.0
11	9.0	4.0	2.0	2.0	6.0	8.0	12.0	16.0	20.0	24.0	24.0	20.0
12	8.0	5.0	1.0	1.0	6.0	8.0	11.0	16.0	21.0	24.0	24.0	20.0
13	8.0	6.0	1.0	1.0	6.0	8.0	11.0	16.0	21.0	24.0	23.0	20.0
14	8.0	6.0	1.0	1.0	6.0	8.0	11.0	16.0	21.0	24.0	23.0	20.0
15	9.0	6.0	2.0	1.0	6.0	8.0	12.0	16.0	21.0	24.0	22.0	20.0
16	9.0	6.0	2.0	1.0	6.0	8.0	12.0	16.0	21.0	24.0	22.0	20.0
17	9.0	6.0	2.0	.0	6.0	8.0	12.0	16.0	21.0	24.0	22.0	20.0
18	9.0	6.0	2.0	.0	5.0	8.0	12.0	16.0	21.0	23.0	22.0	20.0
19	10.0	6.0	3.0	.0	5.0	8.0	12.0	16.0	21.0	23.0	22.0	18.0
20	11.0	6.0	3.0	.0	5.0	8.0	12.0	16.0	21.0	23.0	22.0	18.0
21	11.0	6.0	3.0	.0	4.0	8.0	12.0	16.0	21.0	23.0	22.0	18.0
22	11.0	6.0	3.0	.0	4.0	8.0	14.0	16.0	21.0	23.0	21.0	18.0
23	11.0	6.0	---	.0	4.0	8.0	14.0	16.0	21.0	24.0	21.0	18.0
24	11.0	6.0	2.0	.0	5.0	8.0	14.0	16.0	21.0	24.0	21.0	18.0
25	11.0	6.0	2.0	.0	6.0	9.0	14.0	16.0	21.0	24.0	20.0	18.0
26	11.0	6.0	2.0	.0	6.0	9.0	14.0	16.0	21.0	25.0	20.0	18.0
27	11.0	6.0	2.0	.0	6.0	10.0	14.0	17.0	21.0	24.0	20.0	18.0
28	11.0	6.0	2.0	.0	6.0	10.0	14.0	17.0	21.0	---	20.0	18.0
29	11.0	6.0	2.0	.0	---	10.0	14.0	18.0	21.0	23.0	20.0	16.0
30	11.0	6.0	1.0	.0	---	10.0	14.0	18.0	21.0	23.0	20.0	16.0
31	11.0	---	1.0	.0	---	10.0	---	18.0	---	23.0	20.0	---
MEAN	11.0	6.0	3.0	1.0	5.0	8.5	12.0	16.0	20.5	23.5	22.5	19.5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1986						
19...	1300	6310	2.0	--	63	1070
FEB , 1987						
24...	1200	5760	3.5	--	26	404
MAR						
25...	0930	6800	6.0	98	337	6190
APR						
20...	1030	18800	9.0	94	2380	121000
MAY						
21...	1130	28500	15.0	79	665	51200
JUN						
25...	1000	9030	19.0	93	102	2490
JUL						
22...	0930	4790	20.5	100	126	1630
AUG						
19...	1000	3400	20.0	99	62	569

09183000 COURTHOUSE WASH NEAR MOAB, UT

LOCATION.--Lat 38°38'48", long 109°34'45", in NE¼NE¼SE¼ sec.22, T.25 S., R.21 E., Grand County, Hydrologic Unit 14030005, on left bank 0.6 mi upstream from bridge on U.S. Highway 191, 0.8 mi upstream from mouth and 3.0 mi northwest of Moab.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--October 1949 to September 1955, April to September 1957, July 1966 to current year. Records for station at site 5 mi upstream published as "at Arches Highway Crossing near Moab" September 1958 to July 1966, not equivalent at all times due to possibility that some summer storm runoff would be from intermediate area.

GAGE.--Water-stage recorder. Altitude of gage is 3,980 ft from river-profile map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--27 years (1949-55, 1967-87), 1.83 ft³/s, 1,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft³/s Aug. 5, 1957, gage height, 9.38 ft, from rating curve extended above 500 ft³/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 7	1930	*6,480	*6.50	No other peak greater than base discharge.			

No flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	e.90	.37	e.31	e.40	1.3	.72	.56	e.10	.04	e1.0	.08
2	.12	e.78	.38	e.30	e.48	1.0	.55	.43	e.10	.04	e.85	.09
3	51	e.50	.34	e.36	e.53	.90	.55	.24	e.10	.03	e.22	.09
4	.87	e.44	.48	e.33	e.49	.97	25	.20	e.09	.03	e.14	.08
5	.10	e.42	2.3	e1.3	e.56	1.1	5.0	.19	e.08	.04	e.10	.08
6	e.10	e.40	8.3	e1.2	.65	.83	1.7	.20	e.09	.03	e.08	.08
7	e.09	e.45	1.1	.62	.71	.63	.96	.20	e.09	.04	e185	.07
8	e.08	e.39	.47	e.42	.91	5.8	.71	.19	e.10	.04	e6.7	.07
9	e.07	e.36	.40	e.34	.92	2.3	.62	.18	e.10	.03	e1.2	.07
10	e.08	e.32	.25	e.27	1.0	.81	.43	.17	e.10	.03	e.75	.07
11	e60	e.34	e.24	e.28	.94	.64	.46	.17	e.09	.05	e.35	.07
12	e1.1	e.32	e.30	e.29	.89	.60	.54	5.6	e.10	.07	.17	.06
13	e.45	e.35	e.31	e.29	1.4	.67	.54	.64	e.08	.05	.11	.10
14	e.16	e.35	e.33	e.29	9.8	.50	.44	.13	e.07	.05	.10	.12
15	.15	e.40	e.35	e.25	1.2	.65	.44	.18	e.06	.05	.09	.09
16	.15	e.44	e.34	e.26	1.8	.74	.45	.15	e.07	.05	.1	.08
17	.15	e.46	e.34	e.19	1.2	.70	.44	.13	e.09	1.9	.09	.06
18	.14	e.49	e.33	e.21	1.1	.50	.38	.11	e.09	e.11	.09	.06
19	.14	e.44	e.32	e.21	.83	.86	.22	.11	e.08	e.08	.09	.07
20	.12	e.46	e.36	e.20	.94	6.6	.18	.11	e.08	e.07	.1	.07
21	e1.6	e.44	e.34	e.17	.76	5.7	.27	6.8	e.08	e.10	.09	.06
22	e.60	e.45	e.33	e.16	.93	2.7	.36	3.0	e.07	e.08	.1	.05
23	e.20	e.43	e.33	e.17	1.2	2.0	.40	.09	e.09	e.06	.13	.06
24	e.17	e.41	e.34	e.23	1.7	1.2	.35	.93	e.08	e.06	2.1	.07
25	e.15	e.42	e.29	e.26	2.9	.79	.31	.23	e.07	e.05	.78	.07
26	e.15	.44	e.28	e.30	2.3	.65	.27	.13	.06	e.95	.13	.06
27	e.14	.36	e.29	e.35	4.3	.70	.27	.11	.34	e2.3	.10	.06
28	e.14	.43	e.31	e.40	1.6	.65	.24	.12	.04	e.70	.09	.05
29	e.14	.49	e.32	e.38	---	.62	.22	1.1	.07	e3.4	.09	.05
30	e.15	.46	e.33	e.32	---	.57	.18	.23	.06	e1.2	.09	.05
31	e.17	---	e.30	e.39	---	.69	---	e.15	---	e4.1	.08	---
TOTAL	118.80	13.34	21.17	11.05	42.42	44.37	43.20	22.78	2.42	16.83	201.11	2.14
MEAN	3.83	.44	.68	.36	1.51	1.43	1.44	.73	.08	.51	6.49	.07
MAX	60	.90	8.3	1.3	9.8	6.6	25	6.8	.10	4.1	185	.12
MIN	.07	.32	.24	.16	.40	.50	.18	.09	.04	.03	.08	.05
AC-FT	236	26	42	22	84	88	86	45	4.8	31	399	4.2

CAL YR 1986 TOTAL 461.77 MEAN 1.27 MAX 66 MIN .02 AC-FT 916
WTR YR 1987 TOTAL 530.62 MEAN 1.48 MAX 185 MIN .03 AC-FT 1070

e Estimated

09184000 MILL CREEK NEAR MOAB, UT

LOCATION.--Lat 38°33'44", long 109°30'48", in NW¼NW¼NE¼ sec.8, T.26 S., R.22 E., Grand County, Hydrologic Unit 14030005, on right bank 0.5 mi downstream from North Fork, 1.5 mi southeast of Moab, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--74.9 mi^2.

PERIOD OF RECORD.--October, November 1914 (fragmentary), February to November 1915, February 1916 to June 1917, April to July 1918 (fragmentary), April to July 1919, July 1949 to September 1971. October 1972 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Altitude of gage is 4,240 ft from topographic map. Prior to Apr. 28, 1918, nonrecording gage and Apr. 28, 1918 to Aug. 2, 1919, July 1949 to Mar. 15, 1962, water-stage recorder, 0.4 mi upstream at various datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion into Sheley Tunnel, for storage in K. E. McDougald Reservoir began in March 1981. Diversion approximately 6.0 mi above station. Records do not include approximately 6,040 acre-ft diverted during the 1987 water year.

AVERAGE DISCHARGE.--37 years (1950-71, 1973-80, 1981-87), 14.8 ft^3/s, 10,720 acre-ft/yr, since diversion to Sheley Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, about 5,110 ft^3/s Aug. 21, 1953, gage height, 10.74 ft from floodmark, site and datum then in use from rating curve extended above 700 ft^3/s on basis of slope-area measurements at gage heights 8.24 ft, 8.62 ft, 9.81 ft, and 11.1 ft; maximum gage height, 11.5 ft Aug. 26, 1961, site and datum then in use; minimum recorded, 0.2 ft^3/s Feb. 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 27	0030	405	3.54	July 30	2030	*460	*3.70

Minimum, 3.7 ft^3/s Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	9.4	11	e6.9	8.8	8.6	6.9	e19	28	8.6	15	e9.6
2	5.4	12	10	e6.7	8.8	6.0	6.4	e15	35	8.7	15	e9.7
3	12	13	11	e6.4	8.9	5.0	6.7	e12	35	7.7	13	e9.8
4	5.9	14	11	e6.1	11	4.7	e23	e14	41	7.6	12	e9.2
5	5.3	13	11	e5.9	6.6	4.7	e17	e14	44	8.7	11	e9.2
6	5.3	8.9	14	e5.7	6.2	4.8	e10	e16	48	8.6	11	e9.1
7	5.2	9.4	12	5.2	5.8	5.2	e7.2	e18	61	9.7	20	e8.8
8	4.9	8.1	11	5.4	5.7	5.8	e6.8	e19	66	9.3	13	e8.8
9	4.7	8.0	11	5.0	5.7	13	e6.6	e26	62	9.4	11	e8.7
10	5.0	7.5	e11	6.0	5.5	12	e6.4	e29	55	9.4	11	e8.7
11	25	7.3	e10	7.5	5.5	7.1	e6.7	e30	53	11	e12	e8.7
12	19	8.3	e11	7.7	5.1	6.2	e8.2	e25	48	11	e12	e8.6
13	9.7	8.4	e11	8.0	5.0	6.1	e8.0	e26	43	10	e11	e9.5
14	6.9	8.3	e12	8.9	24	7.4	e7.8	e32	46	9.7	e11	e10
15	15	8.3	e12	9.3	11	6.0	e7.5	e34	46	10	e10	e9.4
16	15	8.3	e11	9.2	6.1	6.3	e7.4	e38	48	10	e11	e9.2
17	15	8.1	e9.2	19	5.1	6.0	e7.2	e40	40	18	e10	8.3
18	15	7.0	e8.6	12	5.0	5.5	e7.6	e42	33	15	e10	7.3
19	16	8.0	e8.5	17	7.4	6.2	e7.8	e30	28	12	e10	7.1
20	15	7.7	e8.0	8.3	8.6	8.4	e7.9	20	25	12	e13	6.9
21	15	9.1	e7.8	6.7	7.8	6.0	e8.0	17	21	13	e13	6.8
22	15	10	e7.6	11	7.6	6.5	e8.3	13	20	12	e10	6.9
23	15	10	e7.5	11	7.5	6.3	e8.6	8.2	21	11	e14	6.9
24	15	11	e7.6	7.8	6.9	6.0	e8.4	15	19	11	e19	7.0
25	14	11	e8.2	8.3	9.1	5.8	e8.8	20	17	9.2	e15	7.0
26	14	11	e8.6	8.4	8.5	6.1	e9.2	33	15	11	e10	7.1
27	14	11	e8.4	8.8	8.6	6.5	e9.4	31	13	30	e9.4	7.1
28	14	11	e8.5	11	8.1	6.0	e10	30	12	11	e9.4	7.0
29	14	12	e8.8	9.2	---	6.2	e12	26	12	28	e9.2	7.0
30	14	12	e8.9	8.8	---	6.2	e11	24	9.5	43	e8.8	7.0
31	18	---	e7.8	9.0	---	7.2	---	22	---	19	e8.7	---
TOTAL	371.7	291.1	304.0	266.2	219.9	203.8	266.8	738.2	1044.5	404.6	368.5	246.4
MEAN	12.0	9.70	9.81	8.59	7.85	6.57	8.89	23.8	34.8	13.1	11.9	8.21
MAX	25	14	14	19	24	13	23	42	66	43	20	10
MIN	4.7	7.0	7.5	5.0	5.0	4.7	6.4	8.2	9.5	7.6	8.7	6.8
AC-FT	737	577	603	528	436	404	529	1460	2070	803	731	489

CAL YR 1986 TOTAL 4269.9 MEAN 11.7 MAX 59 MIN 1.7 AC-FT 8470
WTR YR 1987 TOTAL 4725.7 MEAN 12.9 MAX 66 MIN 4.7 AC-FT 9370

e Estimated

09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT

LOCATION.--Lat 38°09'06", long 109°37'30", in SE¼NW¼, sec.28, T.30 S., R.21 E., San Juan County, Hydrologic Unit 14030005, on left bank, 4 mi east of Canyonlands National Park, the Needles Section.

DRAINAGE AREA.--252 mi^2.

PERIOD OF RECORD.--March 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,980 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of 600 acres above gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,600 ft^3/s Aug. 20, 1984, gage height, 11.95 ft; minimum, no flow several days in July and August, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 349 ft^3/s Aug. 24, gage height, 6.20 ft; minimum, no flow at times during July and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.0	e20	e5.8	e4.5	e6.2	6.1	7.3	69	36	4.3	2.6	e.66
2	e3.0	7.1	e5.8	e5.2	e6.2	5.9	8.0	70	34	3.3	2.1	e.58
3	e3.0	5.2	5.8	e4.7	e6.5	5.3	7.6	66	34	2.7	2.0	.89
4	e3.0	3.7	e5.7	e4.9	e6.0	5.2	e11	64	32	2.4	2.1	.76
5	e3.1	3.8	5.9	e6.0	e6.1	5.4	11	59	32	2.2	1.9	.51
6	e3.1	4.3	6.0	e5.5	e6.1	5.3	8.4	57	32	1.9	15	.76
7	e3.2	5.6	6.2	e5.0	e6.0	5.1	8.6	59	30	1.5	e19	.78
8	3.1	5.3	6.4	e5.4	e6.0	6.4	8.4	60	e32	1.1	e2.1	.74
9	3.0	5.4	e5.1	e3.4	e6.3	e13	9.2	59	e40	.81	e1.5	.62
10	2.9	5.4	e3.0	e3.2	6.7	e14	11	54	e31	.60	e1.0	.61
11	e18	7.2	e2.4	e3.6	6.1	12	12	53	30	.59	e.89	.49
12	14	5.5	e2.6	e3.9	6.3	11	49	52	26	.61	e.76	.43
13	7.4	5.5	e3.4	e3.8	7.1	10	47	53	26	.59	e.72	.48
14	6.8	5.5	e4.5	e4.2	6.4	11	44	57	24	.48	e.67	e2.0
15	6.3	5.4	e5.0	e3.9	6.8	11	46	61	22	e.30	e.70	e3.2
16	6.3	5.7	e4.6	e3.0	7.3	e10	67	63	20	e.21	e.65	1.7
17	6.0	5.6	e4.8	e2.5	e7.0	9.2	85	62	16	.86	e.58	.60
18	6.3	5.8	e5.3	e2.2	e6.8	7.6	90	63	14	1.5	e.39	.53
19	5.9	7.6	e4.9	e2.8	e6.5	e8.4	84	65	13	.88	e.20	.46
20	5.7	6.7	e5.1	e2.6	e6.7	8.2	65	63	e11	.66	e.08	.43
21	5.8	5.8	e5.1	e2.4	e7.0	10	e59	64	10	1.0	e.40	.37
22	6.9	5.7	e4.3	e2.3	e6.7	10	e58	63	e9.4	.81	.99	.29
23	6.5	5.8	e4.6	e3.2	e6.4	8.4	e63	59	e8.5	e.34	e34	.30
24	6.7	5.7	e4.8	e3.1	e6.0	e8.8	65	61	7.2	e.12	e61	.31
25	6.6	5.5	e4.1	e4.4	e5.3	9.4	e66	61	e6.6	e.10	e16	.39
26	6.1	5.7	e4.0	e5.0	5.5	8.8	e64	56	e6.3	e1.3	e5.3	.56
27	6.0	6.4	e4.4	e5.7	6.1	8.6	62	52	5.7	21	e2.7	.72
28	5.8	7.1	e4.3	e6.4	5.7	7.9	64	48	e5.6	2.7	e1.3	.46
29	6.0	7.1	e4.2	e6.1	---	e8.2	65	46	5.5	8.9	e.98	.38
30	6.9	5.8	e4.4	e5.8	---	7.5	66	42	e5.5	8.0	e.82	.38
31	7.7	---	e4.7	e6.3	---	e7.4	---	39	---	4.0	e.74	---
TOTAL	184.1	186.9	147.2	131.8	177.8	265.1	1311.5	1800	605.3	75.76	179.17	21.39
MEAN	5.94	6.23	4.75	4.25	6.35	8.55	43.7	58.1	20.2	2.44	5.78	.71
MAX	18	20	6.4	6.4	7.3	14	90	70	40	21	61	3.2
MIN	2.9	3.7	2.4	2.2	5.3	5.1	7.3	39	5.5	.10	.08	.29
AC-FT	365	371	292	261	353	526	2600	3570	1200	150	355	42

CAL YR 1986 TOTAL 4386.36 MEAN 12.0 MAX 50 MIN 1.4 AC-FT 8700
WTR YR 1987 TOTAL 5085.97 MEAN 13.9 MAX 90 MIN .08 AC-FT 10090

e Estimated

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼ NE¼ NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi downstream from Bitter Creek, 1.0 mi southeast of town of Green River, and 4.0 mi upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi^2, of which 4,260 mi^2, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957. WDR-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 9 to Mar. 31 and Apr. 4-8. Records good except those for estimated daily discharges, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See station 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres upstream from station.

AVERAGE DISCHARGE.--36 years, 1,791 ft^3/s, 1,298,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s, Sept. 7, 1965, gage height, 8.53 ft, caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft^3/s, Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft^3/s, June 19, 1918, at site 1.5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,130 ft^3/s, May 22, gage height, 5.13 ft; minimum daily, 390 ft^3/s, Dec. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1190	1080	820	420	560	600	784	3180	4420	1400	2300	1230
2	1310	1080	820	450	560	600	805	3520	3970	1330	2030	1080
3	1330	1060	820	450	560	600	903	4210	3470	1330	1750	989
4	1310	1070	800	450	560	600	1000	4360	2890	1320	1520	1010
5	1330	1070	800	450	580	620	1400	3430	2520	1330	1510	1070
6	1360	1060	750	474	580	620	1900	3400	2290	1310	1490	988
7	1340	1070	750	500	580	620	2500	2900	2080	1320	1290	966
8	1300	1070	750	500	580	620	3200	3180	1970	1310	1190	1040
9	1280	1050	750	500	580	620	3950	2980	2180	1240	1150	1030
10	1220	1050	750	500	580	620	3940	2970	2630	1130	1140	1010
11	1130	1000	750	500	600	620	3640	3000	3790	1160	1030	962
12	1100	800	700	500	630	660	3620	3350	5380	1350	937	938
13	1110	700	500	520	630	700	3460	3540	5830	1960	926	944
14	1100	700	390	520	630	700	3390	3570	5420	2560	952	919
15	1090	750	450	520	630	700	3220	3610	4500	2620	1040	860
16	1100	900	500	520	630	700	3030	3630	4520	2440	1000	752
17	1050	1000	500	520	630	740	3220	3690	3680	2430	971	702
18	1030	1150	490	530	640	780	3950	3710	3470	2420	962	694
19	1090	1250	470	540	658	850	4330	3750	3570	2410	987	727
20	1220	1250	450	540	660	900	4440	5340	3580	2430	1050	869
21	1360	1200	430	520	660	920	4150	6570	3560	2430	1060	893
22	1450	1100	400	500	620	900	3270	7050	2880	2630	1070	920
23	1430	1000	400	480	620	850	2710	6980	2590	2680	1070	916
24	1430	900	400	480	620	850	2590	6560	1880	2690	1080	913
25	1390	840	400	480	620	820	2560	5420	1540	2710	1100	913
26	1300	820	400	480	620	800	2550	4900	1550	2720	1140	911
27	1260	800	400	500	600	800	2550	4860	1550	2780	1170	818
28	1220	1000	400	520	600	780	2570	4790	1530	2870	1270	690
29	1170	900	400	530	---	740	2700	4580	1410	2740	1360	680
30	1120	820	400	550	---	740	3070	4760	1380	2340	1350	676
31	1070	---	420	560	---	740	---	4750	---	2320	1350	---
TOTAL	38190	29620	17460	15504	17018	22410	85402	132540	92030	63710	38245	27110
MEAN	1232	987	563	500	608	723	2847	4275	3068	2055	1234	904
MAX	1450	1250	820	560	660	920	4440	7050	5830	2870	2300	1230
MIN	1030	700	390	420	560	600	784	2900	1380	1130	926	676
AC-FT	75750	58750	34630	30750	33760	44450	169400	262900	182500	126400	75860	53770

CAL YR 1986	TOTAL 1148934	MEAN 3148	MAX 14300	MIN 390	AC-FT 2279000
WTR YR 1987	TOTAL 579239	MEAN 1587	MAX 7050	MIN 390	AC-FT 1149000

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1987."

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼ NE¼ SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi downstream from Meeks Cabin Dam, 2.7 mi north of Utah-Wyoming State line, and 17 mi southwest of Millburne.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft above National Geodetic Vertical Datum of 1929 (Bureau of Reclamation bench mark). Prior to Oct. 1, 1971, at several sites about 2.0 mi downstream at various datums.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft, since June 1971. No diversion upstream from station.

AVERAGE DISCHARGE.--48 years, 164 ft^3/s, 118,800 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft^3/s, June 7, 1957, from rating curve extended above 1,500 ft^3/s; maximum gage height, 6.46 ft in gage well, 6.76 ft from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 1.0 ft^3/s, Sept. 15, 16, 1983, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,290 ft^3/s, May 17, gage height, 4.52 ft; minimum daily, 12 ft^3/s, Mar. 8-9, Apr. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	54	40	40	18	18	14	32	351	508	176	122
2	94	54	40	40	18	18	14	48	347	506	176	118
3	93	53	40	41	18	18	14	49	400	503	176	118
4	92	53	40	41	18	18	14	49	447	501	182	115
5	91	53	40	41	18	18	14	75	476	500	188	115
6	92	53	40	42	18	17	12	94	543	498	188	115
7	93	47	40	41	18	15	12	204	636	473	188	115
8	93	39	40	41	18	12	12	397	792	454	188	142
9	93	39	40	41	18	12	13	528	735	448	185	165
10	92	39	40	41	18	13	13	593	675	446	185	166
11	91	39	40	40	18	13	13	666	685	439	173	168
12	78	39	40	39	18	13	13	699	697	440	163	167
13	16	40	40	35	18	13	13	794	658	437	163	165
14	36	41	40	31	18	13	13	841	646	384	165	165
15	56	41	40	31	18	13	13	913	633	353	165	154
16	56	41	41	31	18	13	13	1100	720	350	164	142
17	55	40	40	31	18	13	13	1200	669	349	163	142
18	54	40	40	31	18	13	13	1120	595	347	155	142
19	54	40	40	31	18	13	14	951	543	348	146	142
20	54	40	40	27	18	14	14	756	454	348	145	142
21	53	40	41	21	18	14	14	623	405	279	145	142
22	53	40	41	21	18	14	14	526	404	227	145	153
23	52	40	41	21	18	14	14	451	425	229	145	162
24	52	40	41	21	18	14	14	408	439	230	144	162
25	52	40	41	20	18	14	15	372	437	227	134	157
26	52	40	41	20	18	14	15	356	432	224	126	157
27	52	40	41	20	18	14	14	350	430	223	126	157
28	51	40	41	19	19	14	14	281	428	195	126	155
29	51	40	41	19	---	14	15	263	430	180	126	103
30	52	40	41	18	---	14	15	343	478	179	126	56
31	53	---	40	18	---	14	---	343	---	176	126	---
TOTAL	2050	1285	1251	954	505	444	408	15425	16010	11001	4903	4224
MEAN	66.1	42.8	40.4	30.8	18.0	14.3	13.6	498	534	355	158	141
MAX	94	54	41	42	19	18	15	1200	792	508	188	168
MIN	16	39	40	18	18	12	12	32	347	176	126	56
AC-FT	4070	2550	2480	1890	1000	881	809	30600	31760	21820	9730	8380

CAL YR 1986 TOTAL 81259.6 MEAN 223 MAX 2070 MIN 7.7 AC-FT 161200
WTR YR 1987 TOTAL 58460 MEAN 160 MAX 1200 MIN 12 AC-FT 116000

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼ NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi north of Wyoming-Utah State line, 1.3 mi upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft, and 3.0 mi northeast of Manila, UT.

DRAINAGE AREA.--520 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955. WDR WY-76-2: 1970.

GAGE.--Water-stage recorder. Elevation of gage is 6,060 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi upstream at different datums.

REMARKS.--Estimated daily discharges: Nov. 28-30, Dec. 2 to Mar. 20, and Apr. 30 to May 12. Records fair except those for estimated daily discharges, which are poor. Peoples Irrigation Canal diverts 5.9 mi upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation and return flow from irrigated areas.

AVERAGE DISCHARGE.--59 years, 86.5 ft^3/s, 62,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft^3/s, Aug. 3, 1936, gage height, 7.19 ft, site and datum then in use, from floodmarks, from rating curve extended above 570 ft^3/s on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft, site and datum then in use, discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 959 ft^3/s, May 17, gage height, 5.74 ft; minimum daily, 15 ft^3/s, Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	96	65	41	54	52	132	135	181	118	122	34
2	106	97	64	42	62	53	145	140	169	164	89	34
3	128	101	62	43	65	55	119	130	147	180	77	36
4	131	103	58	43	60	56	147	125	145	156	62	49
5	119	101	54	43	60	60	159	120	171	131	57	46
6	110	100	51	43	61	66	272	118	220	98	57	40
7	102	94	49	43	63	70	267	119	253	96	73	36
8	97	77	47	42	65	78	258	120	396	79	84	33
9	95	82	44	40	66	74	254	122	424	77	70	32
10	93	84	43	37	67	70	150	140	413	82	61	30
11	94	79	43	37	69	70	139	170	291	115	63	30
12	95	94	43	37	70	68	134	215	289	90	66	30
13	99	82	43	37	74	68	92	318	246	62	58	29
14	100	88	43	35	75	67	91	434	214	55	83	29
15	98	91	43	34	76	61	127	486	216	47	122	30
16	94	92	43	33	75	58	157	634	241	40	142	30
17	93	94	43	32	74	53	140	827	240	53	100	27
18	93	85	43	34	73	53	138	803	194	83	62	28
19	105	95	42	35	71	50	124	710	167	95	49	18
20	112	84	42	35	69	49	98	578	144	73	46	20
21	112	89	42	36	68	49	94	496	148	64	45	25
22	113	87	42	37	66	53	88	470	139	62	51	25
23	136	80	41	39	65	58	98	330	121	54	52	26
24	120	90	41	42	64	55	113	293	104	45	53	22
25	107	95	40	48	64	59	117	271	85	37	72	16
26	101	81	40	52	60	53	111	263	85	37	70	15
27	98	76	40	54	56	56	113	275	80	43	57	16
28	96	74	40	55	52	49	109	240	71	61	53	16
29	94	72	40	56	---	56	120	443	91	114	46	16
30	87	68	40	54	---	51	128	352	108	215	40	24
31	90	---	40	52	---	75	---	252	---	145	36	---
TOTAL	3210	2631	1411	1291	1844	1845	4234	10129	5793	2771	2118	842
MEAN	104	87.7	45.5	41.6	65.9	59.5	141	327	193	89.4	68.3	28.1
MAX	136	103	65	56	76	78	272	827	424	215	142	49
MIN	87	68	40	32	52	49	88	118	71	37	36	15
AC-FT	6370	5220	2800	2560	3660	3660	8400	20090	11490	5500	4200	1670

CAL YR 1986 TOTAL 45500 MEAN 125 MAX 1120 MIN 19 AC-FT 90250
WTR YR 1987 TOTAL 38119 MEAN 104 MAX 827 MIN 15 AC-FT 75610

NOTE.--Water-quality records for the current year are published in the report "Water Resources Data for Wyoming, 1987."

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi southwest of Dutch John, and 4.9 mi northeast of Greendale.

DRAINAGE AREA.--19,350 mi^2, of which about 4,260 mi^2, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--November 1962 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Jan. 1, 1964, on left bank 600 ft upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft, consisting of the following: Dead storage, 39,700 acre-ft below elevation 5,740 ft; inactive usable storage, 233,500 acre-ft between elevations 5,740 ft and 5,871 ft; active usable storage, 3,516,000 acre-ft between elevations 5,871 ft and 6,040 ft (top of conservation pool). Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,911,000 acre-ft July 13, 1983, elevation, 6,043.80 ft; minimum, 582,900 acre-ft Apr. 26, 1965, elevation, 5908.90 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,640,000 acre-ft Oct. 2-4, elevation, 6,037.38 ft; minimum observed, 2,964,000 acre-ft Mar. 6, elevation, 6,019.64 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

6,015	2,804,000	6,030	3,346,000
6,020	2,977,000	6,035	3,543,000
6,025	3,157,000	6,040	3,749,000

RESERVOIR STORAGE, IN THOUSANDS OF AC-FT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3638	3581	3432	3249	3094	2968	2984	3140	3377	3502	3546	3536
2	3640	3576	3432	3242	3090	2967	2984	3144	3383	3500	3549	3535
3	3640	3573	3432	3236	3085	2966	2984	3144	3388	3498	3550	3535
4	3640	3568	3426	3229	3081	2967	2984	3146	3393	3497	3550	3535
5	3639	3567	3421	3222	3076	2966	2988	3147	3397	3499	3553	3534
6	3638	3567	3418	3217	3073	2964	2992	3148	3403	3499	3554	3534
7	3638	3562	3412	3211	3068	2965	2999	3151	3405	3498	3554	3533
8	3638	3559	3406	3205	3064	2966	3007	3158	3408	3497	3555	3531
9	3638	3554	3400	3198	3058	2967	3015	3159	3413	3494	3557	3528
10	3638	3548	3394	3192	3053	2968	3021	3165	3418	3494	3558	3526
11	3636	3542	3388	3186	3049	2970	3030	3170	3424	3493	3558	3524
12	3630	3536	3381	3180	3044	2970	3033	3176	3428	3492	3559	3522
13	3626	3531	3374	3176	3042	2972	3039	3183	3436	3493	3560	3520
14	3623	3524	3368	3172	3037	2973	3044	3190	3454	3495	3561	3518
15	3620	3519	3363	3167	3033	2974	3049	3196	3462	3498	3561	3515
16	3616	3514	3356	3163	3029	2977	3053	3204	3470	3500	3560	3514
17	3615	3509	3349	3158	3025	2977	3058	3212	3475	3502	3558	3512
18	3614	3503	3342	3153	3019	2979	3065	3220	3479	3503	3556	3509
19	3611	3498	3336	3150	3016	2982	3072	3228	3484	3507	3554	3507
20	3608	3494	3329	3145	3010	2982	3080	3239	3489	3508	3552	3506
21	3606	3490	3322	3140	3005	2983	3088	3255	3494	3512	3550	3504
22	3605	3484	3316	3135	2999	2983	3094	3275	3499	3515	3548	3502
23	3603	3479	3309	3130	2994	2984	3099	3287	3501	3516	3548	3500
24	3602	3474	3301	3127	2990	2985	3104	3301	3501	3519	3547	3499
25	3599	3466	3295	3124	2984	2985	3110	3310	3500	3520	3546	3497
26	3597	3461	3288	3119	2980	2984	3113	3320	3500	3526	3544	3495
27	3594	3455	3281	3115	2975	2985	3117	3329	3501	3530	3542	3493
28	3592	3450	3275	3112	2969	2987	3122	3340	3502	3534	3541	3491
29	3588	3445	3269	3107	---	2986	3128	3350	3503	3538	3542	3488
30	3586	3439	3263	3103	---	2984	3137	3361	3503	3542	3539	3486
31	3585	---	3256	3100	---	2983	---	3372	---	3545	3538	---
MAX	3640	3581	3432	3249	3094	2987	3137	3372	3503	3545	3561	3536
MIN	3585	3439	3256	3100	2969	2964	2984	3140	3377	3492	3538	3486
(#)	6036.03	6032.38	6027.66	6023.45	6019.79	6020.19	6024.45	6030.67	6033.99	6035.04	6034.86	6033.58
(*)	-53	-146	-183	-156	-131	+14	+154	+235	+131	+42	-7	-52

CAL YR 1986 . . . . . (*) +139
WTR YR 1987 . . . . . (*) -152

(#) Elevation, in feet, at end of month.
(*) Change in contents, in thousands of acre-feet.

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest on right bank 0.5 mi downstream from Flaming Gorge Dam, 2 mi south of Dutch John, 4 mi northeast of Greendale, and 407 mi from mouth.

DRAINAGE AREA.--19,350 mi^2, approximately, including about 4,260 mi^2 which is probably noncontributing. This noncontributing area includes 3,959 mi^2 in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft NGVD of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi upstream at different datum. Sept. 3, 1959, to Sept. 30, 1985, at datum 5.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi upstream, beginning Nov. 1, 1962 (see station 09234400).

AVERAGE DISCHARGE.--37 years, 2,182 ft^3/s, 1,581,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft^3/s June 12, 1957, gage height, 10.60 ft, site and datum then in use; maximum gage height, 14.51 ft May 12, June 6, 1986, datum then in use; minimum, 2.3 ft^3/s Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,110 ft^3/s Jan. 3, gage height, 11.34 ft; minimum daily, 742 ft^3/s Aug. 6-12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	3100	3770	3910	3050	1460	1510	1700	1290	1940	1070	1390
2	2230	3000	1750	3950	3020	1600	1250	2900	1280	2000	1060	1860
3	2120	3260	1200	4030	3110	1270	1450	3870	1140	2000	1060	1240
4	2020	3470	3120	4010	2970	1240	1430	3860	1290	2000	1040	1470
5	1770	1740	3760	4010	3010	1460	1120	3860	1300	2000	803	1300
6	1780	2470	3750	3820	2940	2280	1330	3860	1020	2060	742	1480
7	1810	3230	3760	3610	2900	1150	1000	1610	1010	2110	742	1470
8	1790	3130	3770	3820	3200	850	1070	1600	1020	2140	742	2450
9	1890	3250	3750	3830	3260	1270	1650	1630	1370	2190	742	1830
10	2150	3550	3800	3820	3450	1150	1340	1220	1280	2200	742	2200
11	2500	3920	3700	3730	3290	1240	1280	1310	1380	2040	742	1950
12	3100	3930	3780	3350	3350	1060	1380	1350	1310	1890	742	1820
13	3090	3930	3760	2750	2910	1010	1280	1120	1250	1850	744	1560
14	3100	3930	3780	2830	3190	1080	1460	1380	1240	1670	779	1770
15	3100	3930	3780	2880	2910	1040	1310	1120	1170	1470	1340	1700
16	2880	3930	3820	2850	2910	1090	1760	1070	1170	1470	1790	1440
17	1910	3930	3880	2730	2890	1300	1430	1430	1340	1470	2230	1710
18	2960	3940	3870	2900	3780	1100	1350	1740	1340	1480	2220	1660
19	2910	3930	3890	2890	3240	1240	1330	1140	1600	1460	2180	1790
20	3040	3940	3890	3010	3230	1830	1620	862	1280	1460	1810	1540
21	2900	3940	3890	2950	3490	1200	1360	873	1330	1490	2200	1510
22	2860	3940	3890	2850	3600	1210	1480	875	1270	1530	1760	1810
23	2940	3940	3890	3080	3660	1080	1220	913	1750	1530	2030	1930
24	2820	3940	3900	2470	3490	1240	1400	1160	1880	1530	1500	1530
25	2950	3950	3900	2460	3580	1370	1570	1320	2560	1260	2350	1570
26	2620	3950	3900	2580	3400	1420	1130	1320	1050	1260	2220	1850
27	3070	3950	3900	2810	3130	1230	1580	1460	973	1260	2200	1610
28	2930	3950	3400	2630	3070	1250	998	1330	1370	1260	2370	1810
29	2650	3950	3150	3030	---	1130	1260	1220	1470	1260	1770	1580
30	2960	3940	3900	2820	---	1370	1140	809	1860	1260	1680	1900
31	3060	---	3900	2730	---	1610	---	772	---	1250	2060	---
TOTAL	80150	108960	112200	99140	90030	39830	40488	50684	40673	51790	45460	50730
MEAN	2585	3632	3619	3198	3215	1285	1350	1635	1356	1671	1466	1691
MAX	3100	3950	3900	4030	3780	2280	1760	3870	2560	2200	2370	2450
MIN	1770	1740	1200	2460	2890	850	998	772	973	1250	742	1240
AC-FT	159000	216100	222500	196600	178600	79000	80310	100500	80670	102700	90170	100600

CAL YR 1986 TOTAL 1393040 MEAN 3817 MAX 7830 MIN 896 AC-FT 2763000
WTR YR 1987 TOTAL 810135 MEAN 2220 MAX 4030 MIN 742 AC-FT 1607000

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year.
WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year.
SEDIMENT DATA: October 1956 to September 1959.

INSTRUMENTATION.--Specific conductance recorder December 1986 to September 1987; temperature recorder December 1986 to September 1987.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Samples for daily records are taken inside Penstock. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in files of district office. Daily records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62, 1964 to current year).--
SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 microsiemens Aug. 30, 1961; minimum daily, 325 microsiemens June 2, 1961.
WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.
SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,080 microsiemens Nov. 9, 1971; minimum recorded, 550 microsiemens June 25, July 4.
WATER TEMPERATURES: Maximum observed, 15.0°C Aug. 17, 1987; minimum recorded 1.6°C Mar. 1, 2, 1987.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 720 microsiemens Oct. 1, 6, 8-10; minimum recorded, 550 microsiemens June 25, July 4.
WATER TEMPERATURES: Maximum observed, 15.0°C Aug. 17; minimum recorded, 1.6°C Mar. 1, 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV , 1986 05...	1200	946	680	8.40	11.5	12.5	11.1	620	240	87	87
JAN , 1987 21...	1255	3640	620	8.40	5.5	4.0	7.3	621	240	83	83
MAR 26...	1210	1380	640	8.10	16.0	6.5	12.3	694	240	82	82
MAY 27...	1145	1250	600	8.20	14.5	8.5	9.8	613	230	81	81
JUL 29...	1715	1300	590	8.10	27.5	13.5	7.8	618	220	82	82

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
NOV , 1986 05...	58	23	50	31	1	2.4	153	170	17	0.30
JAN , 1987 21...	59	22	47	30	1	2.6	155	170	17	0.30
MAR 26...	59	22	46	30	1	2.5	156	170	19	0.20
MAY 27...	56	21	44	29	1	2.2	145	170	16	0.20
JUL 29...	55	21	43	29	1	2.3	142	140	13	0.20

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09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV , 1986 05...	4.2	427	420	0.58	1090	0.200	--	--	--	0.030
JAN , 1987 21...	5.8	423	420	0.58	4160	0.192	1.5	1.7	7.5	0.040
MAR 26...	5.2	418	420	0.57	1560	0.104	0.70	0.80	3.6	0.030
MAY 27...	5.5	391	400	0.53	1320	<0.099	1.2	--	--	0.010
JUL 29...	4.6	381	360	0.52	1340	0.094	0.70	0.79	3.5	0.020

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	---	670	---	---	---	670	680	620	600	---	660
2	710	---	670	700	650	650	680	---	630	610	---	650
3	700	690	680	---	650	650	680	---	640	---	620	660
4	---	690	680	---	640	660	---	650	640	---	620	660
5	---	690	680	700	650	660	---	650	640	---	600	---
6	720	690	---	700	650	660	680	650	---	600	600	---
7	710	680	---	700	---	---	670	660	---	590	610	---
8	720	---	670	700	---	---	680	660	640	590	---	660
9	720	---	670	700	670	660	660	---	620	580	---	650
10	720	680	680	---	660	660	670	---	620	590	610	650
11	---	---	680	---	660	660	---	650	620	---	610	660
12	---	680	680	---	660	670	---	650	620	---	620	---
13	---	680	---	690	680	670	680	640	---	600	620	---
14	710	680	---	700	---	---	670	640	---	580	620	650
15	710	---	680	700	---	---	670	640	620	600	---	650
16	710	---	680	700	---	680	660	---	620	600	---	650
17	710	670	680	---	660	670	670	---	600	610	600	650
18	---	670	680	---	650	680	---	620	600	---	600	660
19	---	670	680	---	650	680	---	630	620	---	600	---
20	710	670	---	680	650	660	650	640	---	620	610	---
21	700	680	---	680	---	---	660	640	---	640	620	660
22	700	---	680	680	---	---	670	640	620	630	---	660
23	700	---	680	680	660	680	670	---	610	630	---	660
24	700	670	680	---	660	660	650	---	610	640	630	660
25	---	670	---	---	670	660	---	---	600	---	630	660
26	---	670	---	660	660	670	---	640	600	---	640	---
27	710	---	---	---	660	660	680	620	---	620	640	---
28	710	680	---	---	---	---	680	640	---	620	640	---
29	710	---	700	660	---	---	690	630	---	640	640	670
30	710	---	700	660	---	670	680	---	610	630	---	670
31	710	---	700	---	---	670	---	---	---	630	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	---	9.0	---	---	---	4.5	7.0	10.0	12.0	---	13.5
2	13.5	---	9.0	6.0	4.0	3.5	4.5	---	9.5	12.0	---	14.0
3	13.5	12.0	8.5	---	4.0	3.5	4.5	---	9.0	---	13.0	12.5
4	---	12.0	8.5	---	3.5	3.5	---	7.5	9.5	---	12.5	13.0
5	---	12.0	8.5	6.0	3.5	4.0	---	7.5	9.0	---	14.5	---
6	13.5	12.0	---	6.0	3.5	4.0	4.5	7.0	---	13.0	14.5	---
7	13.0	12.0	---	6.0	---	---	4.5	7.0	---	13.0	13.5	---
8	13.0	---	8.5	5.5	---	---	5.5	7.0	10.0	12.0	---	13.5
9	13.0	---	8.5	5.5	3.5	4.0	6.0	---	10.0	13.0	---	13.5
10	13.0	11.0	8.0	---	3.5	4.0	6.0	---	10.0	13.5	14.0	13.5
11	---	---	8.0	---	3.5	4.0	---	7.5	10.0	---	14.5	13.5
12	---	10.5	7.5	---	3.5	4.0	---	7.5	10.0	---	14.5	---
13	---	10.5	---	5.5	3.5	4.0	6.0	7.5	---	13.5	14.5	---
14	13.0	10.0	---	5.5	---	---	6.0	7.5	---	13.5	14.0	13.5
15	13.0	---	7.0	5.5	---	---	6.0	7.0	10.0	13.5	---	13.5
16	13.0	---	7.0	5.5	---	4.0	6.0	---	10.0	13.5	---	13.5
17	13.0	10.0	7.0	---	3.5	4.0	6.0	---	10.5	13.5	15.0	13.0
18	---	10.0	7.0	---	3.5	4.0	---	9.0	10.0	---	14.5	12.5
19	---	10.0	7.0	---	3.5	4.0	---	9.0	10.0	---	14.5	---
20	12.5	9.5	---	4.5	3.5	4.0	6.0	8.5	---	12.0	14.5	---
21	12.5	9.5	---	4.0	---	---	6.0	8.0	---	10.0	14.5	13.5
22	12.5	---	6.5	4.0	---	---	6.0	7.5	11.5	11.5	---	14.0
23	12.5	---	6.5	4.0	3.5	4.0	6.0	---	11.5	11.5	---	13.5
24	12.5	9.0	6.5	---	3.5	4.0	6.5	---	11.5	11.5	13.5	13.5
25	---	9.0	---	---	3.5	4.5	---	---	11.5	---	14.0	13.5
26	---	9.0	---	4.0	3.5	4.5	---	8.0	11.5	---	14.0	---
27	12.5	---	---	---	3.5	4.5	6.5	8.5	---	11.5	14.0	---
28	12.0	9.0	---	---	---	---	6.5	9.5	---	12.0	14.0	13.0
29	12.0	---	5.5	4.0	---	---	6.5	9.5	---	12.0	14.5	13.0
30	12.0	---	6.5	4.0	---	4.5	6.5	---	12.0	12.0	---	13.5
31	12.0	---	6.0	---	---	4.5	---	---	---	12.0	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	684	675	678
2	---	---	---	---	---	---	---	---	---	680	657	674
3	---	---	---	---	---	---	---	---	---	709	635	649
4	---	---	---	---	---	---	---	---	---	635	622	628
5	---	---	---	---	---	---	---	---	---	622	616	619
6	---	---	---	---	---	---	---	---	---	615	610	613
7	---	---	---	---	---	---	---	---	---	634	602	610
8	---	---	---	---	---	---	---	---	---	622	613	619
9	---	---	---	---	---	---	---	---	---	621	615	619
10	---	---	---	---	---	---	---	---	---	615	596	609
11	---	---	---	---	---	---	---	---	---	639	572	597
12	---	---	---	---	---	---	648	646	647	643	597	603
13	---	---	---	---	---	---	648	646	647	643	576	605
14	---	---	---	---	---	---	647	645	646	646	570	611
15	---	---	---	---	---	---	646	644	645	---	---	---
16	---	---	---	---	---	---	647	643	645	---	---	---
17	---	---	---	---	---	---	645	642	644	---	---	---
18	---	---	---	---	---	---	645	644	644	---	---	---
19	---	---	---	---	---	---	646	644	645	---	---	---
20	---	---	---	---	---	---	648	645	646	---	---	---
21	---	---	---	---	---	---	647	645	646	---	---	---
22	---	---	---	---	---	---	648	645	646	---	---	---
23	---	---	---	---	---	---	647	645	646	---	---	---
24	---	---	---	---	---	---	646	644	645	---	---	---
25	---	---	---	---	---	---	646	645	646	---	---	---
26	---	---	---	---	---	---	648	646	647	---	---	---
27	---	---	---	---	---	---	649	646	648	---	---	---
28	---	---	---	---	---	---	649	647	648	---	---	---
29	---	---	---	---	---	---	681	647	660	---	---	---
30	---	---	---	---	---	---	674	669	671	---	---	---
31	---	---	---	---	---	---	676	667	671	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	635	608	621
2	---	---	---	---	---	---	---	---	---	629	581	605
3	---	---	---	---	---	---	---	---	---	618	587	610
4	---	---	---	---	---	---	---	---	---	623	612	617
5	---	---	---	---	---	---	---	---	---	630	607	616
6	---	---	---	---	---	---	---	---	---	630	610	619
7	---	---	---	---	---	---	---	---	---	642	615	629
8	---	---	---	---	---	---	---	---	---	637	601	627
9	---	---	---	---	---	---	---	---	---	635	593	619
10	---	---	---	---	---	---	---	---	---	625	608	620
11	---	---	---	---	---	---	---	---	---	632	613	620
12	---	---	---	---	---	---	---	---	---	625	614	621
13	---	---	---	---	---	---	---	---	---	630	601	619
14	---	---	---	---	---	---	---	---	---	622	605	615
15	---	---	---	---	---	---	---	---	---	622	604	611
16	---	---	---	---	---	---	---	---	---	626	595	612
17	---	---	---	---	---	---	---	---	---	627	605	617
18	---	---	---	---	---	---	---	---	---	624	594	611
19	---	---	---	---	---	---	---	---	---	620	603	614
20	---	---	---	---	---	---	---	---	---	628	602	619
21	---	---	---	---	---	---	---	---	---	631	607	620
22	---	---	---	---	---	---	---	---	---	629	605	620
23	---	---	---	---	---	---	645	630	639	631	614	622
24	---	---	---	---	---	---	641	631	637	626	605	615
25	---	---	---	---	---	---	650	628	643	610	590	602
26	---	---	---	---	---	---	643	630	637	615	593	606
27	---	---	---	---	---	---	638	622	630	611	592	598
28	---	---	---	---	---	---	642	596	628	608	593	602
29	---	---	---	---	---	---	644	621	632	601	590	595
30	---	---	---	---	---	---	642	594	623	604	597	600
31	---	---	---	---	---	---	---	---	---	613	578	599
MONTH	---	---	---	---	---	---	---	---	---	642	578	614

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	604	572	585	562	556	558	597	593	595	624	608	613
2	601	577	589	563	555	558	600	592	596	624	607	613
3	599	591	595	560	556	558	597	591	594	625	615	619
4	602	588	596	559	550	556	596	590	593	624	613	617
5	606	583	596	561	552	556	603	583	592	626	614	620
6	601	590	594	569	554	562	585	581	584	623	609	616
7	593	583	589	568	557	563	591	582	586	625	611	618
8	588	580	583	571	560	563	592	583	588	615	612	613
9	583	573	577	568	560	563	594	588	591	620	608	614
10	583	574	578	566	556	562	594	587	590	620	609	613
11	580	570	575	565	560	563	593	586	589	622	610	615
12	585	572	577	564	561	563	596	589	593	617	608	613
13	580	569	575	565	560	563	595	588	592	620	611	615
14	576	569	572	567	560	564	611	587	596	625	615	619
15	586	567	576	572	566	568	604	589	596	622	614	617
16	583	570	578	576	568	571	592	587	590	625	612	618
17	582	560	573	582	573	578	589	584	587	620	611	615
18	581	564	573	580	571	576	591	586	588	621	608	614
19	579	564	571	584	571	578	597	588	591	615	608	611
20	584	567	577	588	574	583	604	591	596	619	609	614
21	578	564	570	601	581	590	602	593	598	619	613	615
22	578	561	570	593	580	587	615	600	605	621	611	616
23	566	555	560	593	584	588	612	599	604	618	613	616
24	569	552	560	596	581	589	621	600	609	623	615	619
25	567	550	558	596	589	593	605	600	603	625	616	619
26	574	558	564	596	589	592	609	602	606	622	617	619
27	566	557	563	593	586	590	607	603	605	622	618	620
28	564	551	558	590	584	587	613	604	606	620	615	618
29	568	551	561	592	583	586	614	606	611	625	616	619
30	561	556	559	592	586	589	615	607	611	624	615	619
31	---	---	---	592	587	589	614	605	610	---	---	---
MONTH	606	550	575	601	550	574	621	581	597	626	607	616

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	6.2	6.1	6.2
2	---	---	---	---	---	---	---	---	---	6.1	6.0	6.1
3	---	---	---	---	---	---	---	---	---	6.0	5.9	6.0
4	---	---	---	---	---	---	---	---	---	6.0	5.9	6.0
5	---	---	---	---	---	---	---	---	---	5.9	5.9	5.9
6	---	---	---	---	---	---	---	---	---	6.0	5.9	6.0
7	---	---	---	---	---	---	---	---	---	5.9	5.8	5.9
8	---	---	---	---	---	---	---	---	---	5.8	5.7	5.8
9	---	---	---	---	---	---	---	---	---	5.7	5.6	5.7
10	---	---	---	---	---	---	---	---	---	5.6	5.5	5.6
11	---	---	---	---	---	---	---	---	---	5.6	5.5	5.5
12	---	---	---	---	---	---	7.3	7.2	7.3	5.5	5.4	5.5
13	---	---	---	---	---	---	7.2	7.1	7.2	5.5	5.3	5.4
14	---	---	---	---	---	---	7.2	7.0	7.1	5.4	5.1	5.3
15	---	---	---	---	---	---	7.1	7.0	7.0	5.3	5.2	5.3
16	---	---	---	---	---	---	7.1	6.9	7.0	5.3	5.1	5.2
17	---	---	---	---	---	---	7.0	7.0	7.0	5.2	5.0	5.1
18	---	---	---	---	---	---	7.0	6.9	6.9	5.0	4.8	4.9
19	---	---	---	---	---	---	6.9	6.8	6.9	4.8	4.5	4.7
20	---	---	---	---	---	---	6.8	6.8	6.8	4.6	4.4	4.5
21	---	---	---	---	---	---	6.8	6.7	6.8	4.4	4.0	4.2
22	---	---	---	---	---	---	6.7	6.6	6.7	4.2	3.9	4.1
23	---	---	---	---	---	---	6.6	6.6	6.6	4.2	4.0	4.1
24	---	---	---	---	---	---	6.6	6.5	6.5	4.1	3.7	3.9
25	---	---	---	---	---	---	6.5	6.4	6.5	4.0	3.6	3.8
26	---	---	---	---	---	---	6.5	6.4	6.4	3.8	3.6	3.8
27	---	---	---	---	---	---	6.5	6.4	6.5	3.9	3.6	3.8
28	---	---	---	---	---	---	6.5	6.4	6.4	4.2	3.4	3.8
29	---	---	---	---	---	---	6.4	6.3	6.4	3.6	3.4	3.6
30	---	---	---	---	---	---	6.3	6.2	6.3	3.7	3.4	3.6
31	---	---	---	---	---	---	6.2	6.1	6.2	3.6	3.4	3.6
MONTH	---	---	---	---	---	---	---	---	---	6.2	3.4	4.93

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.6	3.4	3.5	3.0	1.6	2.5	---	---	---	7.4	6.2	6.8
2	3.7	3.4	3.6	---	1.6	---	---	---	---	9.0	6.7	7.9
3	3.5	3.3	3.5	3.2	2.5	2.7	---	---	---	8.2	7.7	8.0
4	3.4	3.1	3.2	3.1	2.5	2.8	---	---	---	7.9	7.3	7.5
5	3.3	3.1	3.2	3.2	2.8	3.0	---	---	---	7.4	6.6	7.1
6	3.4	3.2	3.3	3.1	2.8	2.9	---	---	---	7.1	6.5	6.9
7	3.3	3.1	3.3	3.6	2.6	2.9	---	---	---	7.4	6.1	6.8
8	3.3	3.1	3.2	3.1	2.7	2.8	---	---	---	7.6	6.4	6.9
9	3.2	3.1	3.1	2.8	2.6	2.8	---	---	---	8.9	6.4	7.3
10	3.3	3.0	3.2	3.4	2.6	2.8	---	---	---	8.5	7.2	7.5
11	3.3	3.1	3.2	3.1	2.5	2.7	---	---	---	7.9	6.9	7.5
12	3.3	3.1	3.2	3.3	2.5	2.8	---	---	---	8.3	7.1	7.5
13	3.4	3.1	3.3	3.4	2.7	2.9	---	---	---	8.1	7.0	7.4
14	3.3	2.8	2.9	3.3	2.5	2.8	---	---	---	8.0	6.9	7.4
15	3.0	2.8	2.9	3.1	2.6	2.9	---	---	---	7.5	6.9	7.3
16	3.0	2.9	3.0	3.0	2.7	2.9	---	---	---	8.2	6.8	7.4
17	3.1	2.8	2.9	2.8	2.5	2.7	---	---	---	7.8	6.6	7.2
18	2.9	2.8	2.9	3.1	2.5	2.8	---	---	---	9.3	6.9	7.8
19	2.9	2.7	2.8	2.6	2.4	2.5	---	---	---	9.0	6.9	7.9
20	2.8	2.7	2.7	---	---	---	---	---	---	8.9	6.7	7.5
21	2.8	1.8	2.7	---	---	---	---	---	---	8.0	6.6	7.2
22	2.9	2.6	2.8	---	---	---	---	---	---	8.4	6.6	7.4
23	3.1	2.8	3.0	---	---	---	6.6	5.8	6.1	7.5	6.7	7.2
24	3.3	3.0	3.2	---	---	---	6.6	5.9	6.3	7.8	6.8	7.3
25	3.3	3.0	3.2	---	---	---	6.7	6.0	6.2	8.4	7.2	7.9
26	2.9	2.6	2.8	---	---	---	6.6	6.0	6.2	8.4	7.2	7.6
27	2.6	2.3	2.5	---	---	---	6.5	6.0	6.2	8.7	7.3	8.2
28	2.6	1.7	2.3	---	---	---	7.8	6.0	6.6	8.6	7.7	8.1
29	---	---	---	---	---	---	6.8	6.2	6.6	8.5	8.0	8.3
30	---	---	---	---	---	---	7.5	6.2	6.8	8.6	7.8	8.1
31	---	---	---	---	---	---	---	---	---	9.2	7.6	8.3
MONTH	3.7	1.7	3.05	---	---	---	---	---	---	9.3	6.1	7.52

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.5	8.5	9.8	12.4	11.8	12.1	12.7	12.0	12.4	14.1	12.2	13.4
2	10.6	9.1	9.9	12.6	12.0	12.3	12.6	12.0	12.4	13.8	12.1	13.4
3	10.0	9.1	9.4	13.1	12.1	12.5	13.2	12.1	12.6	13.4	11.9	12.7
4	9.6	8.9	9.2	13.6	12.4	12.9	13.3	12.2	12.8	13.4	11.8	12.8
5	10.1	8.2	9.1	13.3	12.7	13.0	14.0	11.9	12.9	12.8	11.7	12.3
6	10.0	8.7	9.3	13.0	12.0	12.6	14.4	13.6	14.0	13.6	12.1	12.9
7	10.0	9.1	9.5	12.6	11.9	12.3	14.0	13.2	13.7	14.0	12.2	13.2
8	10.5	9.4	9.9	13.1	12.2	12.5	14.3	13.3	13.8	13.6	13.1	13.5
9	10.5	9.8	10.2	13.0	12.1	12.6	14.0	13.2	13.5	14.1	12.7	13.4
10	10.5	9.6	10.0	13.2	12.6	12.8	14.3	13.0	13.8	13.8	12.6	13.4
11	10.4	9.7	10.1	13.2	12.4	12.8	14.3	13.5	13.9	14.0	12.3	13.3
12	10.6	9.4	10.0	13.2	12.3	12.9	14.0	13.2	13.5	14.1	13.1	13.7
13	10.6	9.5	10.0	13.4	12.7	13.1	14.3	13.3	13.8	14.3	13.0	13.6
14	10.5	9.6	10.1	13.4	12.8	13.2	14.9	12.1	13.6	13.8	12.5	13.2
15	10.3	9.3	9.9	13.2	12.4	12.8	14.0	12.9	13.5	13.5	12.7	13.2
16	10.1	9.3	9.7	12.9	12.3	12.6	14.0	13.4	13.8	13.6	12.1	12.9
17	10.7	9.1	9.8	12.5	11.5	12.2	14.8	13.8	14.2	13.5	12.2	13.0
18	10.4	9.2	9.8	12.9	11.9	12.4	14.6	14.1	14.3	14.1	12.5	13.4
19	10.8	9.4	10.1	12.8	11.8	12.4	14.5	13.8	14.3	14.4	13.4	14.0
20	10.2	9.1	9.5	12.1	10.8	11.7	14.6	12.9	14.0	14.3	13.3	13.8
21	10.4	9.4	9.9	11.5	9.7	10.7	14.2	13.8	14.1	13.9	13.1	13.7
22	11.8	9.3	10.6	11.8	11.0	11.3	14.0	12.3	13.4	13.9	12.8	13.5
23	12.1	10.8	11.5	11.5	11.0	11.3	13.7	12.4	13.4	13.8	13.3	13.5
24	12.4	10.3	11.6	11.6	10.3	11.2	13.9	11.8	13.0	13.7	12.6	13.2
25	12.7	10.7	11.9	11.7	10.4	11.0	14.0	13.4	13.8	13.4	12.6	13.1
26	11.9	10.3	11.3	11.8	10.7	11.4	13.7	13.3	13.5	13.2	12.6	13.0
27	11.9	11.0	11.5	12.2	11.5	11.9	14.0	13.2	13.7	12.9	12.6	12.8
28	13.6	11.3	12.3	12.5	11.7	12.1	13.9	13.1	13.7	13.3	12.5	12.9
29	13.4	11.3	12.0	12.7	12.2	12.4	14.2	12.9	13.6	13.2	12.1	12.8
30	12.4	11.9	12.2	13.1	12.2	12.7	14.2	13.1	13.7	13.3	12.4	13.0
31	---	---	---	13.2	12.6	12.9	14.4	13.3	13.8	---	---	---
MONTH	13.6	8.2	10.3	13.6	9.7	12.3	14.9	11.8	13.6	14.4	11.7	13.2

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
JAN , 1987					
21...	1255	3640	4.0	3	30
MAR					
26...	1210	1380	6.5	17	63
MAY					
27...	1145	1250	8.5	3	9.8

09235100 CROUSE CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°47'43", long 109°05'26", in NW¼SE¼NE¼, sec. 28, T.1 N., R.25 E., Daggett County, Hydrologic Unit 14040106, on left bank 5.0 mi upstream from mouth and 41 mi northeast of Vernal.

DRAINAGE AREA.--31 mi^2, approximately.

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft from topographic map.

REMARKS.--Records fair including estimated daily discharges.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33 ft^3/s Apr. 8, gage height, 6.29 ft from floodmarks; minimum daily discharge, 0.80 ft^3/s Jan. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.3	1.3	e1.1	e1.1	.84	1.9	8.3	2.2	1.3	1.2	1.2	.93
2	e1.8	1.3	e1.2	e.96	.86	1.7	8.2	2.2	1.3	1.1	1.1	.93
3	e2.5	1.3	e1.2	e.90	.89	2.0	9.8	2.1	1.3	1.0	1.1	.90
4	e2.1	1.3	e1.3	e.92	.91	2.2	9.0	2.0	1.2	1.0	1.1	1.1
5	e1.7	1.3	e1.4	e.94	.94	4.5	14	1.9	1.2	1.1	1.1	1.1
6	e1.4	1.3	e1.4	e.95	.98	e5.0	12	1.7	1.2	1.1	1.1	1.0
7	e1.3	1.3	e1.4	.85	.97	e6.9	9.0	1.6	1.2	1.1	1.1	1.0
8	e1.2	e1.2	e1.4	.85	1.0	e5.6	11	1.6	1.2	1.1	1.1	1.0
9	e1.2	e1.2	e1.4	.82	1.0	e4.1	7.6	1.5	1.3	1.1	1.1	1.0
10	e1.1	e1.3	e1.0	.93	1.3	3.3	5.9	1.5	1.5	1.1	1.0	1.0
11	e1.2	e1.2	e1.1	.91	1.4	2.8	5.4	1.4	1.3	1.2	1.1	1.0
12	e1.2	e1.3	e1.3	.91	1.4	2.5	4.0	1.4	1.2	1.2	1.1	1.0
13	e1.3	e1.2	e1.5	.90	1.4	4.5	3.2	1.3	1.2	1.2	1.0	1.0
14	e1.3	e1.3	e1.5	.93	1.3	4.6	3.3	1.3	1.2	1.1	1.0	1.0
15	e1.3	e1.3	e1.4	.91	1.2	2.8	3.8	1.3	1.2	1.1	1.1	1.1
16	e1.3	e1.3	e1.4	.85	1.2	2.3	4.7	1.2	1.2	1.1	1.1	1.1
17	e1.3	e1.3	e1.4	.84	1.2	2.2	4.7	1.3	1.1	1.1	1.0	1.1
18	e1.3	e1.3	e1.2	.88	1.5	2.2	4.4	1.2	1.1	1.2	1.0	1.1
19	e1.4	e1.3	e1.3	.88	1.5	2.1	3.6	1.2	1.1	1.1	.97	1.1
20	e1.7	e1.3	e1.4	.84	1.4	2.2	3.2	1.2	1.1	1.1	.94	1.1
21	e2.1	e1.3	e1.3	.82	e1.3	2.5	3.0	1.3	1.3	1.3	.96	1.1
22	e2.7	e1.2	e1.2	.81	e1.3	2.3	3.0	1.3	1.3	1.2	.95	1.1
23	e2.8	e1.2	e1.2	.80	e1.3	2.2	2.9	1.3	1.2	1.1	.96	1.1
24	e2.3	e1.3	e1.2	.81	1.2	2.0	2.7	1.3	1.1	1.1	1.1	1.2
25	e1.7	e1.3	e1.2	.82	1.2	2.0	2.6	1.3	1.1	1.1	1.1	1.1
26	e1.4	e1.2	e1.3	.84	1.6	2.1	2.5	1.3	1.1	1.2	1.1	1.1
27	e1.3	e1.3	e1.1	.83	1.6	2.0	2.4	1.3	1.0	1.2	.99	1.1
28	1.2	e1.3	e1.1	.84	2.0	2.3	2.3	1.3	1.0	1.2	.96	1.2
29	1.2	e1.3	e1.0	.87	---	2.2	2.3	1.4	1.1	1.2	.93	1.2
30	1.2	e1.3	e.96	.85	---	2.5	2.3	1.5	1.2	1.2	.94	1.2
31	1.3	---	[illegible]	.84	---	2.7	---	1.4	---	1.2	.93	---
TOTAL	[illegible]	38.3	38.86	27.20	34.69	90.2	161.1	45.8	35.8	35.3	32.23	31.96
MEAN	1.55	1.28	1.25	.88	1.24	2.91	5.37	1.48	1.19	1.14	1.04	1.07
MAX	2.8	1.3	1.5	1.1	2.0	6.9	14	2.2	1.5	1.3	1.2	1.2
MIN	1.1	1.2	.96	.80	.84	1.7	2.3	1.2	1.0	1.0	.93	.90
AC-FT	95	76	77	54	69	179	320	91	71	70	64	63

WTR YR 1987 TOTAL 619.53 MEAN 1.70 MAX 14 MIN .80 AC-FT 1230

e Estimated

09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT

LOCATION.--Lat 40°46'05", long 109°19'06", in NE¼ sec.3, T.1 S., R.23 E., Uintah County, Hydrologic Unit 14040106, on left bank 0.3 mi upstream from Matt Warner Reservoir, and 27 mi northeast of Vernal.

DRAINAGE AREA.--24.6 mi^2.

PERIOD OF RECORD.--September 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft from topographic map. Prior to Aug. 26, 1965, at site 0.2 mi downstream at different datum. Prior to July 28, 1978 datum of gage 1.20 ft higher at same site.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--30 years, 4.11 ft^3/s, 2,980 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 286 ft^3/s May 10, 1973, gage height, 3.55 ft; maximum gage height recorded, 5.29 ft Apr. 3, 1985 (backwater from ice); no flow at times, most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 7	1700	*133	*4.37	Apr. 15	1800	123	4.33

Minimum daily discharge, 0.18 ft^3/s Feb. 24, Mar. 19, 20, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	e2.4	e1.4	e.64	e.20	e.21	11	36	2.8	.96	.31	.22
2	3.1	e2.2	e1.4	e.68	e.21	e.20	38	38	2.3	.72	.25	.21
3	3.7	e2.1	e1.4	e.62	e.19	e.20	46	33	2.0	.43	.32	.19
4	2.0	e2.1	e1.4	e.68	e.20	e.20	47	29	1.8	.36	.27	.49
5	1.6	e2.2	e1.4	e.73	e.21	e.20	49	25	1.6	.32	.20	.62
6	1.4	e2.2	e1.7	e.69	e.20	e.20	74	22	1.6	.27	.27	.40
7	1.3	e2.1	e1.6	e.60	e.19	e.21	93	20	1.4	.28	.61	.31
8	1.2	e2.0	e1.5	e.56	e.19	e.22	76	18	1.5	.29	1.6	.28
9	1.2	e1.9	e1.4	e.52	e.20	e.22	56	17	2.1	.27	.59	.36
10	1.1	e1.8	e1.2	e.47	e.20	e.22	50	15	4.1	.25	.39	.31
11	1.2	e1.7	e1.1	e.49	e.20	e.22	37	14	3.3	.49	.33	.26
12	1.2	e1.9	e1.1	e.47	e.20	e.21	27	13	2.2	.65	.53	.26
13	1.3	e1.8	e1.1	e.45	e.20	e.19	23	12	1.6	.40	1.1	.23
14	1.3	e1.8	e1.1	e.43	e.20	e.19	35	10	1.4	.29	.60	.22
15	1.3	e1.8	e1.0	e.40	e.20	e.19	58	8.7	1.2	.20	.79	.21
16	1.3	e2.0	e1.1	e.42	e.20	e.19	57	7.7	1.1	.19	.83	.22
17	1.3	e2.0	e1.0	e.37	e.20	e.19	51	7.0	.96	.48	.52	.29
18	2.1	e2.0	e.92	e.33	e.20	e.19	46	6.6	.84	2.2	.30	.27
19	2.6	e2.1	e.98	e.35	e.20	e.18	39	7.2	.81	.91	.22	.25
20	2.4	e2.0	e1.0	e.32	e.20	e.18	25	6.7	.90	.48	.22	.22
21	3.3	e1.8	e1.0	e.30	e.20	e.19	22	7.6	.85	.72	.23	.20
22	5.2	e1.7	e.90	e.28	e.20	e.18	24	7.4	.76	.57	.34	.20
23	6.1	e1.4	e.94	e.29	e.20	e.19	26	5.6	.76	.37	.41	.21
24	4.8	e1.6	e.90	e.28	e.18	e.19	28	4.8	.67	.28	1.8	.22
25	3.7	e1.6	e.82	e.29	e.19	e.19	31	5.3	.57	.25	1.2	.22
26	2.9	e1.5	e.78	e.30	e.20	e.20	32	5.4	.55	.26	.88	.24
27	e2.4	e1.5	e.86	e.27	e.21	e.32	33	4.8	.51	.33	.62	.36
28	e2.6	e1.5	e.80	e.26	e.22	e.52	36	4.1	.44	.32	.45	.32
29	e2.2	e1.6	e.72	e.23	---	e1.0	37	4.4	.50	.25	.33	.29
30	e2.4	e1.9	e.76	e.22	---	e2.0	36	4.9	.76	.32	.26	.29
31	e2.4	---	e.62	e.20	---	e4.5	---	3.6	---	.39	.25	---
TOTAL	71.9	56.2	33.90	13.14	5.59	13.49	1242	403.8	41.78	14.48	17.02	8.37
MEAN	2.32	1.87	1.09	.42	.20	.44	41.4	13.0	1.39	.47	.55	.28
MAX	6.1	2.4	1.7	.73	.22	4.5	93	38	4.1	2.2	1.8	.62
MIN	1.1	1.4	.62	.20	.18	.18	11	3.6	.44	.19	.20	.19
AC-FT	143	111	67	26	11	27	2460	801	83	29	34	17

CAL YR 1986 TOTAL 1799.16 MEAN 4.93 MAX 33 MIN .09 AC-FT 3570
WTR YR 1987 TOTAL 1921.65 MEAN 5.26 MAX 93 MIN .18 AC-FT 3810

e Estimated

09261000 GREEN RIVER NEAR JENSEN, UT

LOCATION.--Lat 40°24'34", long 109°14'05", in NE¼SW¼SE¼ sec.5, T.5 S., R.24 E., Uintah County, Hydrologic Unit 14060001, Dinosaur National Monument, on right bank 300 ft upstream from highway bridge, 1 mi downstream from Cub Creek and Chew Ranch, 4 mi southeast of Dinosaur National Monument headquarters, 6.5 mi northeast of Jensen, 12 mi upstream from Brush Creek, and 313.9 mi from mouth.

DRAINAGE AREA.--29,660 mi^2, approximately, including about 4,260 mi^2, which probably is noncontributing. This noncontributing area includes 3,959 mi^2 in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1903 to December 1904, June to August 1905 (gage heights only), March to September 1906, July to October 1914, August to December 1915, October 1946 to current year. Prior to October 1946, published as "at Jensen," except October to December 1903, which was published as "near Vernal."

REVISED RECORDS.--WSP 1243: 1904(m). WRD UT-73: 1972. WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,758 ft from river-profile map. Prior to Oct. 1, 1946, nonrecording gages at site 15 mi downstream at different datums. Dec. 13, 1946 to Sept. 30, 1948, water-stage recorder at present site at datum 1.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Transbasin diversions and diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) 93.1 mi upstream beginning Nov. 1, 1962.

AVERAGE DISCHARGE.--42 years (1903-04, 1946-87), 4,552 ft^3/s, 3,298,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft^3/s May 18, 1984; gage height, 14.66 ft; minimum observed, 102 ft^3/s Dec. 6, 1904.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft^3/s May 4, gage height, 7.17 ft; minimum discharge, 1,190 ft^3/s Aug. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3220	4100	4960	4520	3160	3660	2240	8530	4280	2050	1600	2170
2	3500	4390	4830	4560	3580	2610	2590	8530	4050	2180	1610	1980
3	3630	4410	3420	4620	3630	2280	2720	9290	4420	2280	1590	2200
4	3460	4620	1980	4610	3760	2040	3930	10700	4210	2490	1590	1760
5	4070	4770	3100	4640	3570	2050	4650	10100	3940	2570	1580	1620
6	3280	3730	4680	4710	3760	2280	4800	9060	3850	2550	1560	1640
7	3150	3000	4800	4590	3570	3600	5620	8490	3880	2500	1430	1800
8	3010	4430	4860	4350	3570	4210	5940	7210	3630	2480	1340	1620
9	2940	4200	4880	4500	3870	5590	5850	6680	3560	2460	1290	2540
10	2880	4490	4680	4460	3850	5550	5560	7010	3840	2470	1260	2330
11	3460	4470	4440	4430	4120	5450	5720	7180	4470	2470	1240	2450
12	3230	4970	4220	4330	4120	4590	4970	7040	4900	2470	1230	2450
13	4290	4990	4280	4220	4150	3980	4350	7190	4870	2320	1220	2230
14	4360	5000	4370	3130	4050	3770	4310	7270	4350	2180	1220	2010
15	4400	5070	4490	e3100	4370	3850	4120	7400	3840	2110	1200	1940
16	4330	5040	4590	e3100	4410	4120	3860	7640	3510	2030	1210	2200
17	4260	5100	4670	e3050	4250	3960	3600	7650	3240	2020	1630	1950
18	2850	5220	4710	3000	4200	3390	4610	7800	3020	1980	2240	2040
19	4190	5270	4690	e2950	4960	3150	5610	8150	2960	1930	2480	1950
20	3880	5250	4780	e2900	4280	2850	6230	8250	2840	1910	2490	2230
21	4370	5290	4760	e2900	4110	2920	7100	7760	2750	1880	2010	2060
22	3970	5400	4720	e2900	4270	3310	7090	7120	2420	1870	2460	2040
23	4070	5520	4630	e2900	4410	2740	5960	6670	2290	1890	1970	1900
24	4190	5360	4640	e2900	4560	2450	5210	6280	2220	1890	2270	2450
25	4430	5340	4610	e2850	4390	2370	5440	5820	2420	1870	1930	2070
26	4650	5230	4560	2830	4300	2380	6720	5640	2630	1810	2300	2030
27	3910	5090	4570	3100	4290	2460	7770	5570	2810	1660	2600	2190
28	4490	5120	4590	3010	3710	2460	7910	5390	1540	1610	2430	2040
29	4300	5080	4210	3320	---	2230	8010	5280	1450	1600	2870	2030
30	3850	5050	3600	3260	---	2250	8120	5010	1830	1580	2220	1990
31	4170	---	4500	3300	---	2040	---	4680	---	1580	2160	---
TOTAL	118790	145000	136820	113040	113270	100590	160610	226390	100020	64690	56230	61910
MEAN	3832	4833	4414	3646	4045	3245	5354	7303	3334	2087	1814	2064
MAX	4650	5520	4960	4710	4960	5590	8120	10700	4900	2570	2870	2540
MIN	2850	3000	1980	2830	3160	2040	2240	4680	1450	1580	1200	1620
AC-FT	235600	287600	271400	224200	224700	199500	318600	449000	198400	128300	111500	122800

CAL YR 1986 TOTAL 2589390 MEAN 7094 MAX 21900 MIN 1820 AC-FT 5136000
WTR YR 1987 TOTAL 1397360 MEAN 3828 MAX 10700 MIN 1200 AC-FT 2772000

e Estimated

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily specific conductance and temperature data collected at bridge on U.S. Highway 40, at town of Jensen, 8 mi downstream from gaging station.

PERIOD OF RECORD.--June 1947 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: June 1947 to September 1952, October 1961 to current year.
WATER TEMPERATURES: March 1949 to September 1959, October 1961 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1948 to September 1979.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,330 microsiemens Sept. 10, 1963; minimum daily, 176 microsiemens May 24, 1963.
WATER TEMPERATURES: Maximum, 30.0°C July 11, 1958; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 40,600 mg/L Aug. 23, 1960; minimum daily mean, 9 mg/L Oct. 7-11, 1953, Nov. 22, 1962, and Sept. 1, 1972.
SEDIMENT LOADS: Maximum daily, 2,500,000 tons Mar. 29, 1962; minimum daily, 10 tons on many days in 1962 and 1963.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 880 microsiemens Mar. 26; minimum observed, 380 microsiemens May 27.
WATER TEMPERATURES: Maximum, 24.5°C July 14, Aug. 5; minimum, 0.0°C several days during December and January.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV , 1986											
05...	1620	4990	670	8.00	12.0	9.0	10.7	640	240	87	87
DEC											
10...	1735	4520	680	8.20	-6.0	3.0	12.6	641	250	95	95
JAN , 1987											
23...	1130	2900	700	8.60	-6.0	0.0	12.4	637	250	87	87
FEB											
25...	1330	4500	740	8.70	3.0	4.0	11.8	633	260	98	98
MAR											
24...	1650	2520	850	8.30	6.0	5.0	10.2	636	280	110	110
APR											
23...	1830	5370	455	8.10	20.5	15.5	9.1	637	120	9	9
MAY											
27...	1800	5600	380	8.20	19.5	14.0	8.2	634	130	38	38
JUN											
30...	1830	1810	580	8.10	25.0	21.5	7.0	637	210	69	69
JUL											
29...	1115	1590	620	8.50	31.0	23.5	8.2	640	220	74	74
AUG											
26...	1025	2630	630	8.60	19.0	21.5	7.6	641	220	74	74

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV , 1986 05...	56	24	50	31	1	2.5	152	180	14	0.20
DEC 10...	60	25	52	31	1	2.7	158	190	13	0.20
JAN , 1987 23...	61	24	52	31	1	2.9	164	180	25	0.30
FEB 25...	61	26	56	32	2	3.0	161	190	21	0.30
MAR 24...	63	30	67	34	2	3.0	166	230	31	0.20
APR 23...	30	12	22	28	0.9	1.5	115	110	12	0.20
MAY 27...	32	13	24	28	0.9	1.9	95	86	9.8	0.20
JUN 30...	51	19	41	30	1	2.5	137	140	21	0.30
JUL 29...	53	22	48	31	1	3.8	149	140	22	0.30
AUG 26...	53	21	46	31	1	2.4	145	160	17	0.20

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV , 1986 05...	4.5	433	420	0.59	5830	0.150	<0.010	--	<0.010	--
DEC 10...	5.1	459	440	0.62	5730	0.230	0.030	0.04	0.020	0.06
JAN , 1987 23...	6.6	440	450	0.60	3450	0.240	0.040	0.05	<0.010	--
FEB 25...	6.7	457	460	0.62	5550	0.370	0.070	0.09	0.050	0.15
MAR 24...	8.6	528	530	0.72	3590	0.640	0.050	0.06	0.010	0.03
APR 23...	9.1	323	270	0.44	4680	0.200	0.010	0.01	0.010	0.03
MAY 27...	8.5	233	230	0.32	3520	0.110	0.030	0.04	<0.010	--
JUN 30...	4.0	364	360	0.50	1780	<0.100	0.020	0.03	0.170	0.52
JUL 29...	3.0	391	380	0.53	1680	<0.100	0.030	0.04	<0.010	--
AUG 26...	3.6	391	390	0.53	2780	<0.100	<0.010	--	<0.010	--

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV , 1986		
05...	1620	80
DEC		
10...	1735	110
JAN , 1987		
23...	1130	90
FEB		
25...	1330	160
MAR		
24...	1650	70
APR		
23...	1830	60
MAY		
27...	1800	40
JUN		
30...	1830	70
JUL		
29...	1115	70
AUG		
26...	1825	80

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	600	660	730	---	---	---	---	---	---	630	660
2	680	---	650	740	660	---	---	---	---	---	---	670
3	680	610	730	740	650	---	---	---	---	---	630	670
4	680	600	740	---	690	---	---	---	---	---	---	660
5	---	630	750	740	690	---	---	---	---	---	650	660
6	690	610	730	750	680	---	---	---	---	680	650	---
7	610	600	---	750	680	---	---	---	---	680	640	660
8	620	600	750	730	---	---	---	---	---	660	640	670
9	610	---	---	730	690	---	---	---	---	660	---	660
10	620	600	680	740	680	---	---	---	---	670	640	660
11	600	570	---	---	690	---	---	---	---	670	650	660
12	---	610	---	740	670	---	---	---	---	---	650	660
13	580	620	---	740	690	---	---	---	---	670	640	---
14	580	620	---	760	670	---	---	---	---	680	650	660
15	620	580	---	700	---	---	---	---	---	660	650	660
16	600	---	---	700	670	---	---	---	---	700	---	660
17	580	610	---	690	690	---	---	---	---	660	650	660
18	580	610	---	---	680	---	---	---	---	690	640	660
19	---	630	---	650	690	---	---	---	---	---	640	660
20	610	610	---	650	680	850	---	---	---	720	650	---
21	600	590	---	650	680	860	---	---	---	720	650	660
22	600	600	---	650	---	---	---	---	---	720	640	650
23	570	---	---	650	680	870	455	---	---	710	---	640
24	620	600	---	650	680	860	---	---	---	630	640	640
25	590	620	---	---	680	830	---	---	---	620	650	630
26	---	620	---	650	690	880	---	---	---	---	650	630
27	560	610	750	650	690	860	---	380	---	630	650	---
28	600	600	---	640	680	840	---	---	---	620	640	630
29	600	650	750	650	---	---	---	---	580	630	650	630
30	620	---	750	640	---	860	---	---	---	640	---	630
31	610	---	740	650	---	870	---	---	---	640	650	---
MEAN	610	610	---	690	680	---	---	---	---	---	640	650

09261000 GREEN RIVER NEAR JENSEN, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	10.0	5.0	.5	---	---	---	---	---	---	23.0	17.0
2	11.0	---	4.5	2.0	3.0	---	---	---	---	---	---	17.0
3	11.0	10.5	4.5	2.5	3.0	---	---	---	---	---	23.5	17.0
4	11.5	10.0	4.0	---	2.5	---	---	---	---	---	24.0	17.5
5	---	10.0	3.5	2.0	2.5	---	---	---	---	---	24.5	17.0
6	10.0	9.0	4.0	2.0	3.0	---	---	---	---	23.0	24.0	---
7	10.5	9.5	---	1.5	3.5	---	---	---	---	22.5	23.5	17.0
8	10.5	9.5	3.5	1.5	---	---	---	---	---	22.5	23.0	16.5
9	11.0	---	---	1.0	3.5	---	---	---	---	22.0	---	16.0
10	11.5	---	---	1.0	3.0	---	---	---	---	22.5	24.0	16.5
11	11.0	8.5	---	---	3.5	---	---	---	---	23.0	23.5	16.0
12	---	8.0	---	.5	3.5	---	---	---	---	---	23.0	15.5
13	11.0	7.5	---	.5	4.0	---	---	---	---	24.0	22.5	---
14	11.5	7.5	---	.0	4.5	---	---	---	---	24.5	22.0	16.0
15	11.5	8.0	---	.0	---	---	---	---	---	24.0	21.0	15.5
16	11.0	---	---	.5	4.0	---	---	---	---	23.5	---	15.0
17	10.5	7.5	---	.5	4.5	---	---	---	---	23.0	21.5	15.0
18	10.5	7.5	---	---	4.5	---	---	---	---	22.5	21.0	16.0
19	---	7.0	---	.0	5.0	---	---	---	---	---	20.0	16.5
20	11.0	6.5	---	.0	5.0	5.0	---	---	---	22.0	20.5	---
21	11.5	6.5	---	.0	4.5	4.5	---	---	---	23.5	19.5	15.0
22	11.0	6.5	---	.0	---	---	---	---	---	24.0	19.5	15.5
23	10.5	---	1.0	.0	5.0	5.0	---	---	---	24.0	---	15.0
24	11.0	6.0	.5	.5	4.5	4.5	---	---	---	23.5	19.0	15.5
25	11.0	6.0	.5	---	5.0	4.5	---	---	---	23.5	18.5	16.0
26	---	6.5	.0	1.0	4.5	5.0	---	---	---	---	18.0	16.5
27	11.5	6.0	.5	1.5	4.5	5.0	---	---	---	23.0	17.5	---
28	11.0	6.0	---	2.0	4.5	4.5	---	---	---	22.5	17.0	16.5
29	11.0	6.0	.5	2.0	---	---	---	---	---	22.0	17.5	16.0
30	10.5	---	.0	2.5	---	6.0	---	---	---	22.5	---	16.0
31	10.5	---	.0	2.5	---	6.5	---	---	---	23.0	17.5	---
MEAN	11.0	8.0	---	1.0	4.0	---	---	---	---	---	21.0	16.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV , 1986					
05...	1620	4990	9.0	189	2550
JAN , 1987					
23...	1130	2900	0.0	38	298
FEB					
25...	1330	4500	4.0	126	1530
MAR					
24...	1650	2520	5.0	290	1970
APR					
23...	1830	5370	15.5	1100	15900

09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT

LOCATION.--Lat 40°35'20", long 109°27'53", in NW¼SE¼NE¼ sec.5, T.3 S., R.22 E., Uintah County, Hydrologic Unit 14060002, on right bank 953 ft below State Highway 44, 5.5 mi upstream from Little Brush Creek, and 10.5 mi northeast of Vernal.

DRAINAGE AREA.--77.2 mi^2.

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,625 ft from topographic map. Prior to September 1980, water-stage recorder at site 250 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Water from Oaks Park Reservoir (capacity 6,250 acre-ft), near headwaters, is diverted through Oaks Park Canal to Ashley Creek basin.

AVERAGE DISCHARGE.--8 years, 48.8 ft^3/s, 35,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 375 ft^3/s June 2, 1983, gage height, 2.40 ft; maximum gage height, 3.06 ft May 23, 1980 at different datum; minimum daily, 9.5 ft^3/s Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 268 ft^3/s May 12, gage height, 2.05 ft; minimum daily, 18 ft^3/s Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	39	24	20	e22	e20	18	183	121	61	36	34
2	33	35	24	20	e22	e21	21	181	111	67	35	33
3	32	36	24	20	e21	e22	23	171	99	54	34	33
4	33	33	24	20	e22	e22	26	167	94	51	33	33
5	33	34	24	21	e22	e22	26	168	92	52	32	33
6	33	33	25	22	e21	e21	26	173	87	51	32	31
7	35	31	24	e20	e22	e22	34	181	83	51	34	31
8	39	31	23	e20	e21	e22	36	191	79	50	34	31
9	41	30	23	e20	e21	e21	34	210	106	49	33	30
10	42	30	23	e20	e22	e21	35	213	121	49	32	30
11	43	29	23	e22	e22	e21	35	219	126	49	32	30
12	38	30	23	e22	e22	e20	31	236	101	52	34	30
13	37	29	23	e21	e22	e22	27	232	89	48	33	29
14	39	30	22	e20	e21	e22	33	229	81	45	33	28
15	37	30	22	e19	e23	e21	47	227	76	44	33	27
16	36	29	22	e21	e22	e20	52	231	73	43	35	27
17	35	28	22	e21	e22	e20	54	229	69	48	32	26
18	38	27	21	e23	e22	e20	63	230	64	56	31	26
19	39	27	22	e23	e21	20	77	233	58	49	31	25
20	41	27	21	e21	e20	20	60	235	57	43	30	25
21	42	27	21	e21	e21	21	59	228	55	44	30	24
22	42	27	21	e22	e21	21	74	225	52	43	31	24
23	43	26	21	e22	e21	20	107	215	50	40	32	23
24	44	26	21	e21	e20	20	150	200	47	39	37	23
25	43	26	21	e21	e20	20	157	194	56	38	39	23
26	41	26	21	e21	e20	20	158	184	57	37	44	23
27	39	25	20	e21	e20	20	158	149	55	39	41	23
28	39	26	20	e21	e22	21	169	156	54	39	38	24
29	38	26	21	e21	---	21	168	146	55	37	37	23
30	38	25	20	e21	---	21	177	154	55	37	35	22
31	40	---	20	e22	---	19	---	131	---	36	34	---
TOTAL	1184	878	686	650	598	644	2135	6141	2323	1441	1057	824
MEAN	38.2	29.3	22.1	21.0	21.4	20.8	71.2	198	77.4	46.5	34.1	27.5
MAX	44	39	25	23	23	22	177	236	126	67	44	34
MIN	31	25	20	19	20	19	18	131	47	36	30	22
AC-FT	2350	1740	1360	1290	1190	1280	4230	12180	4610	2860	2100	1630

CAL YR 1986 TOTAL 22885 MEAN 62.7 MAX 293 MIN 17 AC-FT 45390
WTR YR 1987 TOTAL 18561 MEAN 50.9 MAX 236 MIN 18 AC-FT 36820

e Estimated

09266500 ASHLEY CREEK NEAR VERNAL, UT

LOCATION.--Lat 40°34'39", long 109°37'17", in NE¼NW¼NE¼ sec.12, T.3 S., R.20 E., Uintah County, Hydrologic Unit 14060002, on right bank 0.8 mi upstream from head of Utah Power & Light Co.'s canal, 4.5 mi upstream from Dry Fork, and 10 mi northwest of Vernal.

DRAINAGE AREA.--101 mi^2.

PERIOD OF RECORD.--October 1911 to April 1912, August to December 1912, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Datum of gage is 6,230.61 ft NGVD of 1929. Prior to Nov. 14, 1917, nonrecording and water-stage recorder at several sites within 1.5 mi of present site at various datums. Nov. 14, 1917 to July 30, 1968, water-stage recorder at site 75 ft downstream at various datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow increased since July 1940 by water released from Oaks Park Reservoir, capacity, 6,250 acre-ft on Big Brush Creek, and diverted to Ashley Creek basin for irrigation. City of Vernal pipeline, capacity, approximately 11 ft^3/s, diverts water from tributary spring about 1,000 ft above station (diversion began Aug. 1, 1941); at times, part of this flow is returned to Ashley Creek 2.5 mi below station. Prior to September 1961, pipeline capacity was approximately 5 ft^3/s and the return flow entered Ashley Creek 0.5 mi below station.

AVERAGE DISCHARGE.--74 years (1913-87), 101 ft^3/s, 73,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,500 ft^3/s June 11, 1965, gage height, 4.42 ft, datum then in use from rating table extended above 1,060 ft^3/s; maximum gage height, 6.09 ft June 16, 1929, datum then in use; minimum, 3.2 ft^3/s Mar. 16, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 30	2300	582	3.33	May 15	2100	*1,260	*4.01

Minimum daily discharge, 24 ft^3/s, Mar. 31, Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	85	58	38	33	e32	24	458	272	191	84	108
2	86	85	57	38	33	e29	25	387	250	177	76	109
3	88	86	56	37	33	e28	25	297	245	142	73	108
4	81	85	56	38	33	e28	25	294	250	134	70	108
5	88	85	56	37	33	e28	26	347	246	132	66	106
6	85	86	57	37	33	e27	25	424	245	128	68	103
7	93	81	57	37	33	e28	25	469	249	125	91	102
8	103	81	56	37	33	e29	26	462	238	124	94	100
9	102	76	54	37	33	e27	27	464	235	121	90	97
10	104	77	51	37	33	e27	28	448	231	119	92	94
11	101	73	48	37	33	e27	29	441	215	120	91	92
12	83	73	47	37	33	e27	31	474	193	127	98	90
13	85	73	48	37	33	e27	29	567	182	116	92	88
14	87	72	48	37	33	e28	28	600	175	108	97	87
15	84	75	48	36	34	e27	45	744	171	105	105	85
16	83	72	47	36	34	e26	50	800	165	104	107	77
17	84	71	47	35	33	e25	49	699	151	118	94	76
18	87	70	45	35	33	e25	54	651	145	148	89	73
19	87	71	44	34	34	e25	56	610	138	117	86	70
20	90	68	44	34	34	e25	51	478	133	108	96	69
21	92	69	44	34	34	e25	48	437	130	110	95	67
22	91	69	44	34	35	e25	51	376	124	122	108	65
23	91	67	43	34	35	e25	79	319	122	92	120	64
24	88	65	42	33	35	25	116	295	114	79	128	62
25	90	65	41	34	35	25	190	285	110	74	135	57
26	86	64	41	34	35	25	229	282	127	76	128	56
27	87	62	40	33	35	25	239	269	129	78	122	56
28	89	60	40	32	35	25	281	257	135	78	115	54
29	87	60	40	33	---	25	301	264	136	75	116	51
30	88	59	39	32	---	25	377	280	149	79	114	51
31	88	---	39	32	---	24	---	270	---	87	112	---
TOTAL	2758	2186	1477	1096	943	819	2589	13448	5405	3514	3052	2425
MEAN	89.0	72.9	47.6	35.4	33.7	26.4	86.3	434	180	113	98.5	80.8
MAX	104	86	58	38	35	32	377	800	272	191	135	109
MIN	80	59	39	32	33	24	24	257	110	74	66	51
AC-FT	5470	4340	2930	2170	1870	1620	5140	26670	10720	6970	6050	4810

CAL YR 1986	TOTAL	59051	MEAN	162	MAX	1710	MIN	20	AC-FT	117100		
WTR YR 1987	TOTAL	39712	MEAN	109	MAX	800	MIN	24	AC-FT	78770		

e Estimated

09267500 MOSBY CANAL NEAR LAPOINT, UT

LOCATION.--Lat 40°36'30", long 109°53'00", in sec.27, T.2 S., R.18 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, on left bank 4.5 mi southeast of Paradise Park Reservoir, 8 mi downstream from diversion from Dry Fork, and 16 mi northwest of Lapoint.

PERIOD OF RECORD.--July 1954 to current year. Seasonal records only since October 1984.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 9,500 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No flow is assumed November to April. Canal began diverting in 1942 or 1943 from Dry Fork for irrigation in Deep Creek basin. Since 1975 flow regulated by Julius Park Reservoir, capacity 200 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 37 ft^3/s June 16, 17, 1969; no flow for extended periods each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e.10	e14	25	21	16	9.7
2	---	---	---	---	---	---	e.12	e14	26	20	16	11
3	---	---	---	---	---	---	e.14	e13	29	20	15	9.7
4	---	---	---	---	---	---	e.17	e13	30	20	15	11
5	---	---	---	---	---	---	e.20	e14	30	20	14	9.4
6	---	---	---	---	---	---	e.21	e15	29	19	14	8.8
7	---	---	---	---	---	---	e.21	e15	29	18	15	9.0
8	---	---	---	---	---	---	e.21	e13	29	17	14	8.5
9	---	---	---	---	---	---	e.20	e12	29	16	14	8.4
10	---	---	---	---	---	---	e.20	e11	29	14	15	7.8
11	---	---	---	---	---	---	e.20	e12	28	11	15	7.5
12	---	---	---	---	---	---	e.20	e15	28	11	15	7.5
13	---	---	---	---	---	---	e.20	21	27	15	15	7.0
14	---	---	---	---	---	---	e.24	19	27	19	15	6.9
15	---	---	---	---	---	---	e.35	19	26	17	18	8.2
16	---	---	---	---	---	---	e.50	20	25	15	17	7.1
17	---	---	---	---	---	---	e.70	21	25	14	17	7.0
18	---	---	---	---	---	---	e.95	23	25	16	16	[illegible].5
19	---	---	---	---	---	---	e1.1	26	25	16	16	6.2
20	---	---	---	---	---	---	e1.0	24	24	15	15	5.8
21	---	---	---	---	---	---	e1.0	26	23	15	14	5.4
22	---	---	---	---	---	---	e1.3	26	23	15	14	5.2
23	---	---	---	---	---	---	e1.5	24	22	15	14	4.9
24	---	---	---	---	---	---	e2.5	23	22	15	15	4.8
25	---	---	---	---	---	---	e4.0	23	22	14	15	4.7
26	---	---	---	---	---	---	e6.0	23	21	14	14	4.7
27	---	---	---	---	---	---	e8.0	24	21	14	14	4.6
28	---	---	---	---	---	---	e11	24	21	14	13	4.4
29	---	---	---	---	---	---	e14	25	21	15	12	4.3
30	---	---	---	---	---	---	e15	26	21	15	11	4.2
31	---	---	---	---	---	---	---	25	---	16	10	---
TOTAL	---	---	---	---	---	---	71.50	603	762	496	451	210.2
MEAN	---	---	---	---	---	---	2.38	19.5	25.4	16.0	14.5	7.01
MAX	---	---	---	---	---	---	15	26	30	21	17	11
MIN	---	---	---	---	---	---	.10	11	21	11	10	4.2
AC-FT	---	---	---	---	---	---	142	1200	1510	984	895	417

e Estimated

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT

LOCATION.--Lat 40°38'34", long 109°48'37", in NE¼NW¼SE¼ sec.17, T.2 S., R.19 E., Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on left bank 2 mi upstream from mouth, and 9.5 mi northwest of town of Dry Fork.

DRAINAGE AREA.--8.62 mi^2.

PERIOD OF RECORD.--April 1946 to current year.

REVISED RECORDS.--WSP 2125: Drainage area. WDR UT-77-1: 1976.

GAGE.--Water-stage recorder. Datum of gage is 8,284.28 ft NGVD of 1929 (levels by Utah Water and Power Board).

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--41 years, 6.94 ft^3/s, 5,030 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 249 ft^3/s June 19, 1983, gage height, 3.68 ft; no flow for part of Apr. 21, 1961, May 1, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2000	*49	*2.82				

Minimum daily, 0.71 ft^3/s Mar. 17-18, 20-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.4	3.0	1.5	1.2	.89	.89	25	23	11	4.7	3.8
2	4.9	5.4	3.0	1.5	1.1	.83	1.1	17	19	9.9	4.4	3.7
3	4.6	5.1	2.9	1.6	1.1	.81	1.2	15	19	9.3	4.4	3.7
4	4.9	5.0	2.8	1.6	1.1	.81	1.2	16	20	9.0	4.1	3.7
5	4.7	5.0	2.8	1.7	1.[illegible]	.81	1.3	20	20	8.7	4.1	3.5
6	4.9	4.8	2.8	1.7	1.1	.81	1.3	25	20	8.3	4.7	3.4
7	5.8	4.7	2.7	1.7	1.1	.81	1.3	26	21	8.0	5.6	3.4
8	6.9	4.6	2.7	e1.7	1.1	.81	1.3	25	20	7.8	4.7	3.3
9	7.9	4.3	e2.6	e1.7	1.0	.79	1.3	22	20	7.6	5.1	3.2
10	9.0	3.7	e2.4	1.7	.99	e.78	1.2	21	20	7.3	5.5	3.1
11	8.3	3.7	e2.3	1.7	.98	.76	1.2	24	18	7.2	4.9	3.0
12	8.0	3.7	e2.4	1.7	.93	e.74	1.1	26	19	7.1	4.8	3.0
13	8.2	3.7	2.4	1.6	.93	e.75	1.1	26	18	6.4	4.6	2.9
14	7.6	3.6	2.4	1.7	.95	.76	1.1	26	17	6.0	4.7	2.9
15	6.7	3.6	2.3	1.7	e.93	.76	1.3	30	17	5.7	6.5	2.8
16	6.6	3.8	2.3	1.6	.93	.74	1.6	31	16	5.5	5.6	2.8
17	6.6	3.9	2.2	1.5	e.90	.71	2.3	29	16	8.0	4.9	2.8
18	6.8	3.7	1.9	1.5	e.88	.71	3.1	33	15	7.3	4.8	2.7
19	6.8	3.7	1.9	1.4	.89	.74	3.0	34	15	5.8	4.6	2.7
20	6.6	3.5	2.1	1.4	.88	.71	2.4	30	15	5.4	4.5	2.6
21	6.5	3.4	2.2	1.4	.96	.71	2.3	29	14	6.1	4.5	2.6
22	6.4	3.4	2.1	1.4	.90	.71	3.5	25	14	5.6	4.5	2.5
23	6.3	3.3	2.0	1.3	.88	.71	6.7	23	13	4.9	4.5	2.5
24	6.0	3.3	2.0	1.3	.89	.71	11	21	12	4.6	4.8	2.4
25	5.9	3.3	2.0	1.3	.87	.71	16	20	12	4.6	4.6	2.4
26	5.8	3.1	1.8	1.3	.87	.73	19	19	11	4.5	5.2	2.4
27	5.9	3.0	1.7	1.3	.87	.76	20	18	11	4.8	5.6	2.4
28	6.0	3.1	1.8	1.2	1.0	.76	21	17	11	4.3	4.9	2.4
29	6.0	3.1	1.7	1.2	---	.76	22	17	11	5.2	4.4	2.3
30	6.1	3.1	1.7	1.2	---	.76	25	19	11	5.0	4.1	2.3
31	5.8	---	1.8	1.2	---	.76	---	24	---	5.1	3.9	---
TOTAL	197.4	117.0	70.7	46.3	27.33	23.61	176.79	733	488	206.0	148.2	87.2
MEAN	6.37	3.90	2.28	1.49	.98	.76	5.89	23.6	16.3	6.65	4.78	2.91
MAX	9.0	5.4	3.0	1.7	1.2	.89	25	34	23	11	6.5	3.8
MIN	4.6	3.0	1.7	1.2	.87	.71	.89	15	11	4.3	3.9	2.3
AC-FT	392	232	140	92	54	47	351	1450	968	409	294	173

CAL YR 1986 TOTAL 4161.89 MEAN 11.4 MAX 106 MIN .96 AC-FT 8260
WTR YR 1987 TOTAL 2321.51 MEAN 6.36 MAX 34 MIN .71 AC-FT 4600

e Estimated

09268900 BROWNIE CANYON CREEK ABOVE SINKS, NEAR DRY FORK, UT

LOCATION.--Lat 40°39'34", long 109°45'01", in NE¼NE¼SE¼ sec.11, T.2 S., R.19 E. (unsurveyed), Uintah County, Hydrologic Unit 14060002, Ashley National Forest, on right bank 4.5 mi upstream from mouth and 8.5 mi northwest of town of Dry Fork.

DRAINAGE AREA.--8.24 mi^2.

PERIOD OF RECORD.--October 1960 to current year. Published as East Fork of Dry Fork above sinks, near Dry Fork prior to October 1967.

REVISED RECORDS.--WDR UT-86-1: 1983, 1984 (p).

GAGE.--Water-stage recorder. Altitude of gage is 8,300 ft from topographic map. Prior to July 28, 1978 at 0.53 ft higher datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--27 years, 13.6 ft^3/s, 9,850 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 425 ft^3/s June 18, 1983, gage height, 3.52 ft, from rating curve extended above 200 ft^3/s on basis of slope-conveyance study; no flow for part of Apr. 23, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	1900	*157	*2.45	No other peak greater than base discharge.			

Minimum daily, 1.0 ft^3/s Mar. 20, 23-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	8.3	3.8	e2.3	e1.8	e1.3	e1.4	61	44	50	17	9.2
2	8.4	8.0	e3.7	e2.1	e1.7	e1.3	e1.5	41	37	49	15	8.8
3	8.2	7.8	e3.5	e2.1	e1.6	e1.5	e1.6	29	36	33	14	8.8
4	8.2	7.5	e3.6	e2.4	e1.6	e1.6	e1.6	30	36	26	14	9.1
5	8.5	7.4	e3.7	e2.9	e1.6	e1.5	e1.6	43	37	23	13	8.6
6	9.0	7.2	e3.9	e3.1	e1.6	e1.8	e1.6	64	39	22	15	8.5
7	12	e7.0	e3.8	e2.8	e1.6	e1.6	e1.6	68	41	21	18	8.3
8	14	e6.9	e3.4	e2.4	e1.7	e1.4	e1.6	68	43	20	15	8.2
9	15	e6.8	e3.2	e2.1	e1.7	e1.3	e1.5	61	44	20	15	7.9
10	16	e6.6	e2.9	e2.0	e1.7	e1.3	e1.4	54	43	19	15	7.6
11	14	e6.5	e2.7	e2.2	e1.7	e1.4	e1.4	56	42	19	14	7.5
12	12	e6.5	e2.7	e2.2	e1.8	e1.3	e1.3	67	41	19	14	7.3
13	12	e6.6	e2.7	e2.1	e1.7	e1.4	e1.3	75	39	18	13	6.9
14	10	e6.4	e2.9	e1.9	e1.5	e1.3	e1.4	69	37	17	14	6.7
15	9.7	e6.5	e3.0	e1.9	e1.4	e1.3	1.6	88	36	16	19	6.6
16	9.6	e6.7	e2.9	e1.8	e1.4	e1.6	2.2	88	35	15	15	6.8
17	9.7	e6.7	e2.7	e1.9	e1.4	e1.6	3.0	82	34	22	13	6.4
18	10	e6.6	e2.9	e2.1	e1.3	e1.3	3.8	100	33	23	13	6.3
19	10	e6.5	e2.8	e2.0	e1.3	e1.2	3.5	101	31	17	12	6.2
20	10	e6.4	e2.7	e1.9	e1.4	e1.0	2.3	72	29	16	12	6.0
21	10	4.6	e2.7	e2.0	e1.4	e1.2	2.3	66	28	19	12	5.8
22	9.8	4.5	e2.6	e2.1	e1.4	e1.1	3.4	57	26	20	11	5.7
23	9.6	5.3	e2.5	e2.1	e1.3	e1.0	6.4	49	24	16	11	5.4
24	9.2	4.2	e2.3	e2.3	e1.3	e1.0	13	45	23	15	12	5.2
25	9.1	4.2	e2.5	e2.4	e1.2	e1.0	21	42	22	14	12	5.2
26	8.9	4.0	e2.4	e2.2	e1.3	e1.0	23	41	21	14	13	5.1
27	9.1	3.9	e2.3	e2.1	e1.4	e1.1	24	39	20	16	13	5.0
28	9.5	3.7	e2.2	e1.9	e1.4	e1.1	28	38	19	14	11	4.9
29	9.5	3.8	e2.1	e1.8	---	e1.1	38	39	19	15	11	4.8
30	9.7	3.8	e2.0	e1.8	---	e1.1	55	43	29	17	10	4.8
31	9.0	---	e2.0	e1.8	---	e1.3	---	49	---	19	9.6	---
TOTAL	317.6	180.9	89.1	66.7	42.2	40.0	251.3	1925	988	644	415.6	203.6
MEAN	10.2	6.03	2.87	2.15	1.51	1.29	8.38	58.9	32.9	20.8	13.4	6.79
MAX	16	8.3	3.9	3.1	1.8	1.8	55	101	44	50	19	9.2
MIN	7.9	3.7	2.0	1.8	1.2	1.0	1.3	29	19	14	9.6	4.8
AC-FT	630	359	177	132	84	79	498	3620	1960	1280	824	404

CAL YR 1986 TOTAL 8268.5 MEAN 22.7 MAX 268 MIN 1.9 AC-FT 16400
WTR YR 1987 TOTAL 5064.0 MEAN 13.9 MAX 101 MIN 1.0 AC-FT 10040

e Estimated

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT

LOCATION.--Lat 40°31'35", long 109°36'18", in SE¼NE¼SW¼ sec.30, T.3 S., R.21 E., Uintah County, Hydrologic Unit 14060002, on left bank 900 ft upstream from mouth and 4 mi southeast of town of Dry Fork.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--July 1954 to current year.

REVISED RECORD.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,842.9 ft NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Several diversions above station for irrigation, including Mosby Canal (see station 09267500) which began diverting water for irrigation in Deep Creek basin during 1942 or 1943.

AVERAGE DISCHARGE.--33 years, 28.8 ft^3/s, 20,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft^3/s June 21, 1983, gage height, 6.98 ft; no flow for several periods in 1956-61, 1963, 1966, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	0100	*355	*4.38	No other peak greater than base discharge.			

Minimum daily discharge, 1.2 ft^3/s, Apr. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.6	3.0	e3.4	e4.2	2.9	3.2	26	114	34	15	4.5
2	10	3.6	3.2	e3.8	e4.5	3.1	3.3	33	110	32	15	4.4
3	6.0	3.6	3.5	e3.5	e4.0	3.5	3.2	33	110	29	15	4.3
4	4.7	3.7	3.2	e3.0	e4.6	3.8	3.3	30	122	30	13	4.7
5	4.3	3.8	2.9	e3.2	e4.5	4.3	3.4	27	127	30	12	4.5
6	4.1	4.0	3.2	e3.0	e4.3	4.6	3.6	29	130	28	10	4.1
7	3.9	4.1	3.2	e3.3	e4.6	5.1	4.1	34	142	25	9.9	3.9
8	3.8	3.9	3.0	e3.1	e4.6	4.5	4.2	43	148	24	10	3.9
9	3.6	3.4	e2.5	e2.9	e4.1	4.6	3.1	74	137	25	9.8	3.7
10	3.9	3.4	e2.2	e2.7	e4.5	4.5	2.8	101	134	29	8.7	3.4
11	4.5	3.3	e2.4	e3.1	e4.6	3.9	2.6	133	118	27	8.6	3.3
12	5.4	3.6	e2.7	e3.6	e4.2	3.9	2.4	160	111	21	9.4	3.2
13	5.1	3.6	e2.9	e3.5	e3.9	4.1	2.1	191	111	20	8.8	3.2
14	4.7	3.5	e3.3	e3.0	e4.2	4.0	2.1	222	110	18	8.9	3.4
15	4.4	3.5	e3.2	e2.3	e4.2	3.7	1.9	246	108	15	9.4	3.5
16	4.2	3.4	e3.3	e1.9	e3.8	3.9	1.8	306	104	14	11	3.4
17	4.1	3.3	e3.3	e1.9	e4.1	3.6	1.6	306	101	15	12	3.4
18	6.4	3.3	e3.0	e2.1	e3.8	3.7	1.6	283	99	19	11	3.2
19	4.7	3.3	e3.4	e2.2	e3.9	4.3	1.7	252	98	21	10	3.1
20	4.5	3.1	e3.5	e2.1	e4.0	3.7	1.7	216	96	22	8.9	3.0
21	5.0	3.1	e3.4	e2.0	3.4	3.8	1.6	189	93	23	7.9	3.1
22	4.7	3.1	e3.0	e2.1	3.8	3.6	1.6	165	89	21	6.8	3.1
23	4.8	2.9	e2.8	e2.1	2.6	3.5	1.5	135	85	19	6.0	3.0
24	4.3	2.9	e3.4	e2.5	2.4	3.3	1.4	116	80	17	6.0	2.9
25	4.0	2.9	e3.8	e3.4	2.4	3.2	1.2	109	76	15	6.5	2.7
26	4.0	2.9	e3.1	e3.9	2.7	3.4	1.2	106	70	14	6.4	2.7
27	3.8	2.9	e3.1	e4.3	2.3	3.1	1.2	100	58	14	6.0	2.7
28	3.8	3.0	e3.6	e3.8	2.5	3.2	2.8	97	52	13	6.0	2.7
29	3.7	3.1	e3.7	e3.4	---	3.0	13	96	46	12	5.9	2.7
30	3.7	3.2	e3.7	e3.1	---	3.1	19	94	38	12	5.1	2.7
31	4.0	---	e3.3	e3.7	---	2.9	---	93	---	13	4.7	---
TOTAL	142.3	101.0	97.8	91.9	106.7	115.8	98.2	4045	3017	651	283.7	102.4
MEAN	4.59	3.37	3.15	2.96	3.81	3.74	3.27	130	101	21.0	9.15	3.41
MAX	10	4.1	3.8	4.3	4.6	5.1	19	306	148	34	15	4.7
MIN	3.6	2.9	2.2	1.9	2.3	2.9	1.2	26	38	12	4.7	2.7
AC-FT	282	200	194	182	212	230	195	8020	5980	1290	563	203

CAL YR 1986	TOTAL	23089.5	MEAN	63.3	MAX	1140	MIN	2.2	AC-FT	45800
WTR YR 1987	TOTAL	8852.7	MEAN	24.3	MAX	306	MIN	1.2	AC-FT	17560

e Estimated

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT

LOCATION.--Lat 40°27'01", long 110°53'01", in SE¼NE¼SE¼ sec.27, T.1 N., R.9 W., Uinta Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 1,500 ft upstream from Wolf Creek, and 7.1 mi northwest of Hanna.

DRAINAGE AREA.--61.6 mi^2.

PERIOD OF RECORD.--May to October 1904 (gage heights only, fragmentary), August 1921 to March 1922, October 1922 to September 1923, October 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,218 ft from topographic map. Prior to Oct. 1, 1923, nonrecording gages at approximately same site at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion for irrigation of about 100 acres above station. On March 27, 1986, the U.S. Bureau of Reclamation began diverting water from the West Fork into the Strawberry Aqueduct for transmountain diversion to Strawberry Reservoir. The diversion gates are located several miles above the station.

AVERAGE DISCHARGE.--41 years (1922-23, 1945-85), 49.9 ft^3/s, 36,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 758 ft^3/s June 5, 1967, maximum gage height, 4.40 ft June 4, 1952, datum then in use; minimum discharge recorded, 0.19 ft^3/s Mar. 29, 1975, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 189 ft^3/s Oct. 23, gage-height, 3.29 ft; minimum daily discharge, 12 ft^3/s several days in February and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	17	e17	e14	13	e12	24	44	39	28	22	15
2	38	17	e18	e15	13	e13	27	41	39	27	21	14
3	34	19	e18	e15	12	e14	28	38	38	26	20	14
4	32	22	e18	e15	13	15	28	37	37	25	19	16
5	31	23	19	e15	e12	16	27	38	39	24	18	16
6	32	23	18	e15	e13	16	28	38	39	23	18	15
7	32	21	19	e15	e13	17	28	38	40	22	19	15
8	31	23	e18	e14	13	16	33	39	54	22	16	15
9	29	22	e16	e13	13	17	31	39	40	22	16	14
10	28	23	e14	e13	12	16	31	39	39	21	16	14
11	30	e21	e16	e14	12	16	33	39	38	22	15	14
12	27	24	e17	e14	13	18	29	39	38	26	15	14
13	25	23	e18	e14	13	17	26	40	37	19	15	14
14	22	e21	e17	13	12	16	30	40	35	19	18	14
15	23	22	e17	e13	e12	15	35	40	36	20	18	14
16	24	21	e17	e13	e13	15	41	41	36	19	18	14
17	25	21	e17	e13	e12	15	46	42	35	23	16	13
18	31	20	e17	e14	e12	14	52	44	35	22	15	13
19	31	23	e17	e14	e12	15	50	47	34	21	15	13
20	31	20	e17	e14	e12	e14	41	46	34	20	15	13
21	28	20	e16	e13	e12	e13	39	45	34	27	17	14
22	27	19	e16	e13	e12	e14	42	44	34	27	17	14
23	41	e19	e16	e14	e13	e14	48	43	30	21	18	14
24	29	e20	e15	16	e13	e14	49	42	26	20	22	14
25	27	21	e15	14	e12	14	67	43	29	19	20	14
26	26	e20	e16	13	e12	16	80	44	29	20	18	14
27	25	e19	e16	13	e13	17	64	44	28	22	17	13
28	30	e20	e15	14	e12	e16	55	43	29	23	16	13
29	28	21	e14	e13	---	e16	40	42	31	23	16	13
30	27	19	e15	e13	---	e17	46	40	30	25	16	13
31	25	---	e14	13	---	19	---	40	---	24	15	---
TOTAL	903	624	513	429	349	477	1198	1279	1062	696	537	420
MEAN	29.1	20.8	16.5	13.8	12.5	15.4	39.9	41.3	35.4	22.5	17.3	14.0
MAX	41	24	19	16	13	19	80	47	54	28	22	16
MIN	22	17	14	13	12	12	24	37	26	19	15	13
AC-FT	1790	1240	1020	851	692	946	2380	2540	2110	1380	1070	833

CAL YR 1986 TOTAL 2040 MEAN 22.2 MAX 41 MIN 14 AC-FT 4050
WTR YR 1987 TOTAL 8487 MEAN 23.3 MAX 80 MIN 12 AC-FT 16830

e Estimated

09277500 DUCHESNE RIVER NEAR TABIONA, UT

LOCATION.--Lat 40°08'01", long 110°36'06", in SE¼SW¼SE¼ sec.14, T.2 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank on upstream site of bridge on State Highway 35, 6 mi upstream from Rock Creek, and 7 mi southeast of Tabiona.

DRAINAGE AREA.--356 mi².

PERIOD OF RECORD.--October 1918 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,190 ft from topographic map. Prior to Oct. 15, 1934, nonrecording gage, and Oct. 16, 1934 to Nov. 6, 1953, water-stage recorder at site 0.5 mi upstream at various datums. Nov. 7, 1953 to Nov. 7, 1972, at site 1 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions above station for irrigation, including a transmountain diversion through Duchesne Tunnel 20 mi upstream.

AVERAGE DISCHARGE.--69 years, 203 ft³/s, 147,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft³/s June 16, 1963, gage height, 7.97 ft from floodmarks, caused by failure of Little Deer Creek Dam 20 mi upstream. Rating curve extended above 400 ft³/s on basis of slope-area measurement and area-velocity study of peak flow; minimum recorded, 27 ft³/s Oct. 17, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s, and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 19	0400	*576	*2.89				

Minimum daily discharge, 72 ft³/s Sept. 8, 22, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	145	126	107	99	99	120	183	210	138	113	85
2	231	141	135	114	99	100	135	186	202	133	106	89
3	211	135	136	113	99	102	131	163	194	130	108	88
4	181	137	135	113	100	107	139	142	181	122	110	88
5	169	138	141	112	94	114	136	132	183	117	109	84
6	160	151	137	112	100	118	139	137	187	113	102	79
7	168	147	132	111	99	117	138	175	207	103	105	77
8	166	148	128	e100	101	120	143	209	261	101	98	72
9	159	147	124	e95	99	120	147	234	242	106	94	80
10	159	153	105	e95	101	116	137	270	210	104	94	78
11	168	138	120	e100	101	117	146	240	197	108	96	75
12	164	159	128	e105	102	111	142	213	181	103	90	74
13	160	144	130	106	103	123	126	236	176	97	92	75
14	155	147	126	104	103	117	132	307	167	95	107	80
15	153	149	125	104	95	116	147	312	165	94	110	83
16	154	146	125	104	105	112	167	363	162	93	106	80
17	158	146	126	102	99	113	181	419	149	165	101	79
18	187	146	121	e105	99	113	195	475	150	141	96	78
19	200	147	125	e110	97	110	189	498	142	108	94	79
20	195	147	127	e110	96	106	167	448	132	106	90	77
21	179	147	123	e100	96	99	158	375	133	125	95	75
22	170	144	118	e105	98	106	158	275	139	121	99	72
23	183	140	121	e110	102	102	177	239	138	111	100	73
24	177	141	116	e115	101	102	190	228	129	107	109	75
25	158	146	112	106	98	106	212	222	128	105	116	76
26	155	134	115	99	97	100	219	252	123	110	108	75
27	155	134	115	99	99	101	196	258	125	114	99	72
28	153	140	113	103	97	99	183	238	124	116	95	73
29	152	145	109	98	---	97	181	237	133	133	93	75
30	151	139	109	100	---	97	187	238	139	126	89	76
31	152	---	107	99	---	104	---	228	---	121	88	---
TOTAL	5251	4321	3810	3256	2779	3364	4818	8132	5009	3566	3112	2342
MEAN	169	144	123	105	99.2	109	161	262	167	115	100	78.1
MAX	231	159	141	115	105	123	219	498	261	165	116	89
MIN	151	134	105	95	94	97	120	132	123	93	88	72
AC-FT	10420	8570	7560	6460	5510	6670	9560	16130	9940	7070	6170	4650

CAL YR 1986 TOTAL 115290 MEAN 316 MAX 2320 MIN 95 AC-FT 228700
WTR YR 1987 TOTAL 49760 MEAN 136 MAX 498 MIN 72 AC-FT 98700

e Estimated

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT

LOCATION.--Lat 40°32'54", long 110°41'37", in SW¼SW¼SW¼ sec.21, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 175 ft upstream from road bridge, 0.5 mi upstream from mouth, and 10.6 mi northeast of Hanna.

DRAINAGE AREA.--15.7 mi^2.

PERIOD OF RECORD.--August 1953 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,860 ft from river-profile map. Prior to July 23, 1974, at site 75 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Pipeline capacity approximately 1.5 ft^3/s that provides water for small hydroelectric plant and irrigation for dude ranch lying below station, diverts water from creek a short distance above station at times in summer months.

AVERAGE DISCHARGE.--34 years, 13.8 ft^3/s, 10,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 216 ft^3/s June 5, 1986, gage height, 3.15 ft, from floodmarks; minimum not determined, occurred during winter period of no gage height record.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	2200	*128	*2.85	June 7	1900	72	2.47

Minimum daily discharge, 2.2 ft^3/s several days during March and April.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	e7.8	e4.2	3.9	2.6	2.2	26	38	29	15	8.8
2	11	9.7	e7.8	e4.2	3.9	2.5	2.2	25	38	27	15	8.9
3	10	10	8.0	e4.1	3.8	2.5	2.2	22	40	26	14	8.8
4	11	9.8	8.0	e4.0	3.7	2.5	2.5	23	42	25	14	9.5
5	11	9.6	8.1	e4.0	3.7	2.5	2.6	27	46	24	13	8.7
6	11	9.1	8.0	e4.0	3.7	2.4	2.6	32	49	23	14	8.7
7	12	e9.0	8.0	e4.0	3.6	2.4	2.8	35	59	22	14	8.8
8	11	e8.5	8.0	e4.0	3.6	2.4	3.2	39	59	22	13	8.7
9	11	e8.0	7.4	e4.0	3.6	2.3	3.2	38	56	21	13	8.6
10	12	e9.5	e6.4	e4.0	3.4	2.2	3.5	41	54	21	12	8.5
11	11	e9.3	e6.4	e4.0	3.3	2.3	3.6	42	55	20	12	8.4
12	11	e9.0	e6.7	e4.0	3.3	2.2	3.6	46	55	20	12	8.6
13	11	e8.8	7.1	e3.8	3.2	2.3	3.6	53	54	18	12	8.6
14	10	e8.6	7.7	e3.7	3.2	2.3	4.6	58	53	18	13	8.9
15	10	e8.4	8.5	e3.7	3.2	2.3	6.5	66	57	17	13	9.0
16	10	e8.2	6.7	e3.6	3.2	2.3	7.6	73	57	17	12	8.7
17	10	e8.2	5.5	e3.4	3.0	2.3	9.4	80	53	25	11	8.7
18	11	7.8	e5.4	e3.4	3.0	2.3	10	64	49	22	11	8.7
19	11	8.1	e5.6	e3.5	3.0	2.3	9.1	65	46	19	11	8.6
20	11	8.4	5.8	e3.8	2.9	2.2	7.8	56	44	18	10	8.5
21	11	8.4	5.3	e3.7	2.8	2.2	8.2	51	43	21	10	8.4
22	10	e8.3	e5.2	e3.9	2.8	2.2	10	47	42	20	10	8.1
23	10	e8.4	e5.0	e4.1	2.8	2.2	13	43	41	18	9.9	8.3
24	10	e8.4	e4.8	e4.2	2.8	2.2	15	38	39	16	10	8.5
25	11	8.5	e4.6	4.4	2.7	2.2	16	37	37	16	10	8.4
26	11	e8.4	e4.5	4.4	2.7	2.2	16	36	35	17	9.5	8.3
27	11	e8.4	e4.5	4.3	2.6	2.2	17	35	33	17	9.4	8.3
28	11	e8.3	e4.5	4.2	2.6	2.2	20	35	32	18	9.3	8.6
29	11	8.3	e4.3	4.2	---	2.2	23	35	32	18	9.0	8.5
30	11	8.1	e4.3	4.2	---	2.2	26	35	30	17	8.8	8.5
31	10	---	e4.2	3.9	---	2.2	---	36	---	16	8.7	---
TOTAL	333	261.5	194.1	122.9	90.0	71.3	257.0	1339	1368	628	358.6	258.6
MEAN	10.7	8.72	6.26	3.96	3.21	2.30	8.57	43.2	45.6	20.3	11.6	8.62
MAX	12	10	8.5	4.4	3.9	2.6	26	80	59	29	15	9.5
MIN	10	7.8	4.2	3.4	2.6	2.2	2.2	22	30	16	8.7	8.1
AC-FT	661	519	385	244	179	141	510	2660	2710	1250	711	513

CAL YR 1986 TOTAL 9275.7 MEAN 25.4 MAX 179 MIN 2.9 AC-FT 18400
WTR YR 1987 TOTAL 5282.0 MEAN 14.5 MAX 80 MIN 2.2 AC-FT 10480

e Estimated

09278500 ROCK CREEK NEAR HANNA, UT

LOCATION.--Lat 40°32'44", long 110°39'20", in NE¼NE¼NE¼ sec.26, T.2 N., R.7 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 1.2 mi downstream from South Fork and 11.5 mi northeast of Hanna.

DRAINAGE AREA.--122 mi^2.

PERIOD OF RECORD.--July 1949 to September 1969, August 1974 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,620 ft from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--33 years (1950-69, 1975-87), 157 ft^3/s, 113,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s June 3, 1986, gage height, 8.31 ft, maximum gage height, 8.60 ft June 13, 1953; minimum recorded, 4.4 ft^3/s Feb. 7, 1977, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	2200	*1,420	*6.47	June 7	2100	1,310	6.22

Minimum daily discharge, 27 ft^3/s Feb. 23, Mar. 2, 4, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	71	49	32	31	e28	34	283	530	276	143	87
2	81	69	51	32	30	e27	34	272	509	239	129	89
3	78	70	49	35	30	e28	36	237	581	219	123	85
4	72	66	48	35	30	e27	36	240	726	203	115	104
5	74	66	50	38	e29	e28	35	276	790	190	111	89
6	73	65	49	39	30	e28	35	339	836	178	112	83
7	76	52	47	e38	30	30	38	412	982	168	150	80
8	79	57	42	e35	30	30	44	456	991	160	121	79
9	80	61	36	e32	30	30	44	486	858	153	112	76
10	80	65	e28	e33	30	e30	45	559	777	147	108	73
11	79	64	e35	34	30	29	48	655	804	151	107	72
12	68	69	e40	35	30	e29	44	673	818	137	103	71
13	67	61	41	34	30	29	41	796	784	129	101	70
14	67	61	41	e32	30	e29	49	952	721	122	149	71
15	67	59	41	e30	e29	29	66	1010	722	117	150	73
16	66	57	43	e30	30	31	84	1110	723	113	146	70
17	67	56	40	e29	e31	32	102	1210	588	198	119	67
18	81	55	37	31	e30	31	113	1190	515	187	110	65
19	90	58	40	31	e29	31	105	1040	473	135	104	64
20	91	58	41	e29	e30	32	89	871	443	123	102	63
21	85	57	38	30	e29	e30	84	729	403	170	103	61
22	81	53	37	30	e28	31	102	601	385	169	112	60
23	83	53	36	30	e27	31	129	525	344	132	120	59
24	80	55	e35	30	e28	e30	153	483	318	120	129	59
25	79	54	e33	31	e30	30	162	463	299	116	122	59
26	77	48	e32	31	e29	e30	164	452	284	122	111	59
27	78	50	34	31	e29	30	175	417	269	150	102	57
28	79	51	e33	31	e28	e27	207	386	267	148	97	55
29	77	52	e32	32	---	e30	247	369	303	156	93	55
30	77	48	e32	32	---	e31	270	362	294	150	89	54
31	73	---	e32	31	---	31	---	423	---	157	86	---
TOTAL	2374	1761	1222	1003	827	919	2815	18277	17337	4935	3579	2109
MEAN	76.6	58.7	39.4	32.4	29.5	29.6	93.8	590	578	159	115	70.3
MAX	91	71	51	39	31	32	270	1210	991	276	150	104
MIN	66	48	28	29	27	27	34	237	267	113	86	54
AC-FT	4710	3490	2420	1990	1640	1820	5580	36250	34390	9790	7100	4180

CAL YR 1986 TOTAL 91075 MEAN 250 MAX 2260 MIN 27 AC-FT 180600
WTR YR 1987 TOTAL 57158 MEAN 157 MAX 1210 MIN 27 AC-FT 113400

e Estimated

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°29'36", long 110°34'39", in SE¼NW¼SW¼ sec.9, T.1 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on right bank at Lower Stillwater damsite "B", 0.1 mi upstream from Corral Creek, 6.8 mi downstream from South Fork, and 11.9 mi northwest of Mountain Home.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,250 ft from river-profile map. Prior to Apr. 12, 1939, nonrecording gage at site 300 ft upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--50 years, 175 ft^3/s, 126,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,920 ft^3/s June 18, 1931, gage height, 5.98 ft; maximum gage height, 6.26 ft June 4, 1986, from floodmarks; minimum recorded, 7.0 ft^3/s Mar. 13, 1940, Mar. 20, 1942 (probably caused by ice jams above station).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	0430	*1,490	*4.98	June 7	2400	1,340	4.83

Minimum daily discharge, 37 ft^3/s, Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	95	70	43	45	41	47	320	546	338	185	111
2	e110	93	70	42	44	39	50	313	523	292	163	113
3	e105	96	69	45	43	40	52	259	576	266	156	110
4	e100	90	70	47	43	39	53	255	712	245	145	128
5	e105	94	68	50	e43	41	54	295	810	230	139	117
6	e100	94	68	52	43	41	57	374	845	213	139	109
7	108	77	68	52	42	43	57	474	945	204	184	106
8	109	e72	59	50	42	43	62	537	1060	197	165	103
9	110	80	e52	45	42	43	61	567	902	189	140	102
10	110	88	38	46	42	43	60	657	795	180	135	99
11	111	e90	50	48	42	42	63	709	809	187	133	98
12	97	91	56	49	43	43	60	737	840	171	129	96
13	97	85	57	48	43	43	54	869	814	161	125	97
14	97	84	57	45	44	43	58	1020	769	156	175	95
15	94	82	56	42	e44	43	73	1050	727	150	173	99
16	93	78	59	42	44	45	87	1180	792	147	182	96
17	94	79	57	41	e44	45	104	1330	646	251	145	92
18	114	79	52	43	e43	44	118	1330	574	264	132	90
19	123	82	55	43	42	44	114	1210	525	182	129	89
20	123	79	56	41	43	44	97	971	499	165	126	88
21	112	79	53	42	42	44	89	786	459	216	125	88
22	110	77	50	42	41	44	103	648	445	225	134	85
23	111	81	51	42	39	43	128	560	404	176	141	84
24	105	78	49	43	40	41	154	517	369	158	155	82
25	106	75	46	44	43	41	166	492	350	148	150	82
26	102	69	45	45	e42	41	169	492	330	154	139	83
27	104	76	48	44	41	41	174	453	317	194	128	81
28	107	73	47	44	40	37	217	416	306	190	123	78
29	102	70	46	e45	---	41	251	393	350	200	120	78
30	104	69	45	46	---	43	298	377	371	199	114	78
31	97	---	e44	46	---	42	---	424	---	201	111	---
TOTAL	3250	2455	1711	1397	1189	1307	3130	20013	18410	6249	4430	2857
MEAN	105	81.8	55.2	45.1	42.5	42.2	104	646	614	202	143	95.2
MAX	123	96	70	52	45	45	298	1330	1060	338	185	128
MIN	90	69	38	41	39	37	47	255	306	147	111	78
AC-FT	6450	4870	3390	2770	2360	2590	6210	39700	36520	12390	8790	5670

CAL YR 1986 TOTAL 99371 MEAN 272 MAX 2320 MIN 38 AC-FT 197100
WTR YR 1987 TOTAL 66398 MEAN 182 MAX 1330 MIN 37 AC-FT 131700

e Estimated

09279100 ROCK CREEK NEAR TALMAGE, UT

LOCATION.--Lat 40°18'40", long 110°29'36", in SE¼NE¼NW¼ sec.18, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi upstream from mouth, 4.1 mi southwest of Talmage and 11.1 mi northwest of Duchesne.

DRAINAGE AREA.--230 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,119.3 ft NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--24 years, 188 ft^3/s, 136,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,470 ft^3/s June 6, 1986, gage height, 4.57 ft; minimum recorded, 6.0 ft^3/s Nov. 28, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 17	0600	*1,170	*3.37				

Minimum daily discharge, 45 ft^3/s, Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	103	e82	e49	e52	e47	75	294	470	285	181	102
2	149	103	e82	e49	e52	e45	74	297	459	257	160	103
3	138	103	e82	e51	e51	e47	79	258	487	237	152	101
4	117	101	e82	e54	e51	e46	80	250	583	221	143	112
5	117	102	e81	e58	e52	e48	79	270	673	209	136	111
6	114	103	80	e60	e51	e48	87	315	706	198	136	101
7	115	90	75	e60	e50	e50	87	386	760	191	168	98
8	118	91	e70	e58	e49	e50	82	435	901	184	151	95
9	118	e90	e68	e52	e50	e50	80	453	787	180	137	93
10	118	e97	e47	e52	e50	e53	86	513	680	173	133	90
11	127	104	e56	e55	e50	e52	86	564	679	178	133	88
12	113	103	e66	e56	e51	58	76	579	713	168	127	84
13	106	95	e67	e55	e50	63	73	685	682	157	124	84
14	108	96	e68	e53	e51	60	78	802	655	151	158	84
15	105	93	e66	e50	e55	63	91	859	581	148	161	89
16	102	89	e68	e48	e51	63	114	955	679	143	177	85
17	101	88	e68	e47	e55	59	130	1050	547	216	144	82
18	121	88	e62	e50	e53	55	150	1060	483	253	130	79
19	133	93	e64	e50	e50	e55	143	1010	442	182	124	79
20	138	88	e66	e49	e50	e55	144	845	421	163	121	77
21	126	90	e63	e48	49	57	121	694	384	199	121	77
22	119	87	e58	e48	e48	58	109	578	371	210	127	73
23	124	e86	e60	e49	e46	56	123	499	341	172	134	72
24	117	e86	e58	e50	e47	56	148	461	316	155	144	70
25	114	87	e54	e51	e50	58	175	435	299	146	144	70
26	112	83	e54	e52	e50	55	189	453	286	149	134	71
27	112	e87	e55	e52	e48	72	189	426	273	181	124	69
28	113	e86	e56	e51	e48	61	221	388	263	183	118	67
29	111	84	e55	e48	---	68	242	370	287	194	113	67
30	110	81	e52	e54	---	70	274	353	316	191	108	67
31	109	---	e55	e53	---	70	---	372	---	191	103	---
TOTAL	3632	2777	2020	1612	1410	1748	3685	16909	15524	5865	4266	2540
MEAN	117	92.6	65.2	52.0	50.4	56.4	123	545	517	189	138	84.7
MAX	149	104	82	60	55	72	274	1060	901	285	181	112
MIN	101	81	47	47	46	45	73	250	263	143	103	67
AC-FT	7200	5510	4010	3200	2800	3470	7310	33540	30790	11630	8460	5040

CAL YR 1986 TOTAL 101770 MEAN 279 MAX 2270 MIN 47 AC-FT 201900
WTR YR 1987 TOTAL 61988 MEAN 170 MAX 1060 MIN 45 AC-FT 123000

e Estimated

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT

LOCATION.--Lat 40°16'14", long 110°26'31", in NE¼NW¼NW¼ sec.34, T.2 S., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at downstream edge of bridge on State Highway 35, 1.7 mi upstream from Knight diversion dam, 3.9 mi downstream from Rock Creek, and 7.7 mi north-northwest of Duchesne.

DRAINAGE AREA.--623 mi^2.

PERIOD OF RECORD.--April 1970 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,840 ft from topographic map. Prior to Apr. 25, 1973, at site 150 ft upstream at different gage datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions above station for irrigation, including a transmountain diversion to the Great Basin through Duchesne Tunnel.

AVERAGE DISCHARGE.--17 years, 386 ft^3/s, 278,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft^3/s June 6, 1986, gage height, 7.52 ft, from floodmarks; minimum, 37 ft^3/s Jan. 31, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 18	0900	*1,970	*6.54	No other peak greater than base discharge.			

Minimum discharge, 117 ft^3/s Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	274	e220	162	158	153	170	375	668	421	300	191
2	382	268	e230	176	159	156	194	372	662	390	273	197
3	361	263	e235	161	158	157	190	325	676	364	263	197
4	314	263	e235	177	157	163	200	305	762	335	254	203
5	424	265	e240	179	146	167	197	309	858	322	249	202
6	394	274	e230	177	154	174	209	343	901	306	241	182
7	305	268	e220	175	155	171	210	430	972	291	275	175
8	297	264	e210	158	157	178	217	504	1230	278	260	168
9	296	260	205	152	156	176	223	535	1070	275	243	174
10	299	274	e190	153	156	173	207	649	911	265	237	165
11	314	254	168	167	158	171	218	728	893	276	234	165
12	302	291	e180	174	158	159	216	751	924	263	222	164
13	286	264	190	173	157	174	191	898	879	246	214	168
14	283	268	e185	161	164	167	197	1150	848	239	262	174
15	278	270	191	150	146	166	223	1220	757	226	273	182
16	276	263	199	156	168	169	261	1400	883	215	284	176
17	277	268	195	140	148	167	286	1630	719	335	231	172
18	314	260	181	165	155	168	309	1730	650	379	202	160
19	348	260	194	179	152	166	307	1670	592	269	191	152
20	353	257	192	178	149	160	271	1440	542	247	180	147
21	324	256	186	166	150	149	247	1150	493	294	181	144
22	307	251	175	171	152	161	256	898	477	323	187	136
23	310	247	183	177	158	153	289	760	449	280	196	135
24	317	262	173	192	156	154	324	703	415	261	218	134
25	294	266	162	183	152	158	348	668	400	250	235	138
26	289	239	158	171	148	149	355	719	381	256	232	150
27	285	242	179	165	157	152	332	692	372	294	221	148
28	285	239	173	166	144	147	335	629	365	301	212	148
29	286	e250	161	156	---	145	346	601	393	331	207	151
30	283	e235	166	163	---	147	363	587	442	323	195	150
31	282	---	157	162	---	158	---	598	---	322	191	---
TOTAL	9626	7815	5963	5185	4328	5008	7691	24769	20584	9177	7162	4948
MEAN	311	260	192	167	155	162	256	799	686	296	231	165
MAX	424	291	240	192	168	178	363	1730	1230	421	300	203
MIN	261	235	157	140	144	145	170	305	365	215	180	134
AC-FT	19090	15500	11830	10280	8580	9930	15260	49130	40830	18200	14210	9810

CAL YR 1986 TOTAL 216061 MEAN 592 MAX 4700 MIN 124 AC-FT 428600
WTR YR 1987 TOTAL 112256 MEAN 308 MAX 1730 MIN 134 AC-FT 222700

e Estimated

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT

LOCATION.--Lat 40°08'00", long 111°01'27", in SE¼SW¼NW¼ sec.16, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 300 ft below Soldier Creek Dam, 1.5 mi upstream from Willow Creek, and 3.4 mi south of Soldier Springs.

DRAINAGE AREA.--213 mi^2, includes approximately 170 mi^2 tributary to Strawberry Reservoir, which includes area above diversion dams on Indian and Trail Hollow Creeks.

PERIOD OF RECORD.--October 1942 to September 1956, October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map. Prior to June 1, 1971, water-stage recorder at site about 0.2 mi upstream at different datum. From June 1, 1971 to Aug. 8, 1974, at site about 0.8 mi downstream at different datum. From Aug. 25, 1983 to Sept. 10, 1985 at site about 300 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. The elevation of the new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft^3/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Currant Creek. Several old transmountain diversions upstream to the reservoir. Transmountain diversions from the reservoir and upstream tributaries to the Great Basin.

AVERAGE DISCHARGE.--23 years (1943-56, 1964-72), 31.0 ft^3/s, 22,500 acre-ft/yr prior to completion of Soldier Creek Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft^3/s May 4, 1952, gage height, 3.84 ft, site and datum then in use, from rating curve extended above 550 ft^3/s; minimum daily, 0.23 ft^3/s July and August 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 29 ft^3/s July 21, Aug. 13; minimum daily, 11 ft^3/s Jan. 14-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	15	15	13	12	e15	21	25	24	25	27	27
2	13	15	15	13	12	e15	26	25	24	25	27	28
3	13	15	15	14	e13	e15	25	25	24	25	26	27
4	13	16	15	14	e13	e15	24	25	25	25	26	27
5	13	15	14	14	e13	e15	24	25	24	25	25	27
6	13	16	14	14	e13	e15	24	25	24	25	26	27
7	14	16	16	13	e13	e15	25	25	24	26	27	27
8	14	16	14	13	e13	e15	25	25	23	25	28	27
9	16	17	14	13	e13	e15	25	26	24	25	28	27
10	15	17	13	13	e13	e15	25	25	26	25	28	27
11	15	17	13	13	e13	e15	25	25	27	25	28	27
12	15	18	14	13	e13	e15	25	25	27	25	28	27
13	16	16	15	12	e13	e15	26	25	28	27	29	27
14	16	16	15	11	e13	15	26	25	28	28	28	27
15	15	16	16	11	e13	16	25	25	27	26	28	27
16	14	15	14	11	e14	15	25	25	27	26	28	27
17	15	16	14	11	e14	14	25	25	26	27	28	27
18	15	15	14	11	e14	14	25	25	27	28	28	27
19	15	15	14	11	e14	15	25	25	26	28	28	27
20	16	14	14	11	e14	15	26	24	26	28	28	26
21	16	13	14	11	e14	15	26	25	26	29	28	25
22	15	14	14	11	e14	16	25	25	26	28	28	25
23	15	14	13	11	e14	12	26	25	26	27	28	24
24	16	14	14	11	e14	12	25	25	26	28	28	24
25	16	14	14	11	e14	15	25	24	26	28	27	24
26	16	14	14	12	e14	14	25	25	26	28	27	24
27	17	14	14	12	e14	14	25	25	26	28	27	24
28	15	13	15	12	e14	14	26	25	26	28	26	23
29	14	14	14	12	---	14	25	25	26	27	26	23
30	14	15	13	12	---	15	26	25	26	28	26	18
31	14	---	13	12	---	15	---	25	---	27	26	---
TOTAL	467	455	440	376	375	455	751	774	771	825	846	774
MEAN	15.1	15.2	14.2	12.1	13.4	14.7	25.0	25.0	25.7	26.6	27.3	25.8
MAX	23	18	16	14	14	16	26	26	28	29	29	28
MIN	13	13	13	11	12	12	21	24	23	25	25	18
AC-FT	926	902	873	746	744	902	1490	1540	1530	1640	1680	1540

CAL YR 1986 TOTAL 7475 MEAN 20.5 MAX 28 MIN 12 AC-FT 14830
WTR YR 1987 TOTAL 7309 MEAN 20.0 MAX 29 MIN 11 AC-FT 14500

e Estimated

09286100 RED CREEK ABOVE RESERVOIR, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'48", long 110°51'43", in SW¼SE¼SE¼, sec.2, T.2 S., R.9 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank 2 mi above Red Creek Dam and 9.2 mi north of Fruitland.

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 7,320 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversions above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft^3/s, Apr. 15, gage height, 2.15 ft; maximum gage height, 4.56 ft, Dec. 13, (backwater from ice jam or snowslide); minimum daily discharge, 1.2 ft^3/s, Sept. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.3	e4.1	e3.6	2.9	2.1	2.1	7.9	18	12	3.7	4.2	1.3
2	e5.2	e4.1	e3.7	2.8	2.2	2.2	10	16	11	3.3	2.6	1.2
3	e4.9	e4.1	e3.8	2.8	2.2	2.6	12	13	9.8	3.0	2.2	1.2
4	e4.6	e4.1	e3.8	2.8	2.2	3.4	13	12	9.5	2.8	1.8	1.4
5	e4.4	e4.2	3.8	3.1	2.1	3.9	11	12	9.0	2.8	1.6	1.6
6	e4.3	e4.1	3.8	3.2	2.1	4.5	12	13	9.7	2.5	2.2	1.5
7	e4.2	e4.1	e3.8	3.4	2.1	4.3	13	13	10	2.6	3.5	1.4
8	e4.2	e4.1	e3.8	3.1	2.0	4.6	17	13	11	2.4	2.3	1.5
9	e4.2	e4.0	e3.4	2.9	2.0	4.8	17	12	9.5	2.4	1.7	1.4
10	e4.1	e4.2	e3.0	2.8	2.1	4.9	17	12	8.4	2.3	1.7	1.4
11	e4.2	e3.9	e3.3	2.8	2.1	4.5	19	12	7.0	2.7	1.7	1.3
12	e4.2	4.3	e3.6	2.8	2.1	4.4	16	11	6.5	2.7	1.6	1.4
13	e4.2	e4.0	e3.5	2.7	2.1	5.4	13	12	6.1	2.3	1.6	1.4
14	e4.1	e4.0	e3.6	2.5	2.3	4.4	17	11	5.7	2.0	1.9	1.5
15	e4.0	e4.0	e3.5	2.3	2.3	4.1	22	11	6.6	1.9	2.1	1.7
16	e4.0	e4.0	e3.7	2.3	2.3	3.9	20	12	6.4	1.8	2.2	1.6
17	e4.0	4.0	e3.4	2.1	2.3	4.4	19	11	5.5	4.5	1.7	1.4
18	e4.8	3.8	e3.4	2.0	2.3	4.4	19	17	4.9	4.3	1.4	1.4
19	e4.6	4.5	e3.7	2.0	2.2	4.1	15	24	4.7	2.4	1.3	1.4
20	e4.6	4.0	e3.5	1.9	2.2	3.9	10	21	4.5	2.3	1.4	1.4
21	e4.3	4.1	e3.4	1.9	2.2	3.7	9.8	21	4.4	4.1	1.5	1.4
22	e4.2	3.8	e3.2	1.8	2.2	4.0	13	19	4.0	3.8	1.8	1.3
23	e4.2	e3.7	e3.5	1.8	2.3	3.8	15	19	3.9	2.7	1.8	1.4
24	e4.2	e3.9	e3.3	1.9	2.2	3.7	16	18	3.8	2.1	2.4	1.4
25	e4.1	e3.8	e3.2	2.0	2.3	3.8	16	18	3.5	1.8	2.5	1.4
26	e4.2	e3.7	e3.4	2.0	2.2	3.9	16	22	3.5	2.0	2.1	1.5
27	e4.1	e3.7	e3.7	2.0	2.2	4.0	14	23	3.3	2.5	1.7	1.4
28	e4.2	e3.7	e3.5	2.1	2.1	3.7	18	16	3.5	3.0	1.6	1.5
29	e4.3	4.2	e3.3	2.1	---	3.9	16	14	4.6	3.0	1.5	1.5
30	e4.1	e3.9	e3.2	2.1	---	4.4	17	15	5.0	2.8	1.3	1.5
31	e4.1	---	3.2	2.1	---	5.3	---	13	---	6.3	1.3	---
TOTAL	133.1	120.1	108.6	75.0	61.0	125.0	450.7	474	197.3	88.8	60.2	42.7
MEAN	4.29	4.00	3.50	2.42	2.18	4.03	15.0	15.3	6.58	2.86	1.94	1.42
MAX	5.2	4.5	3.8	3.4	2.3	5.4	22	24	12	6.3	4.2	1.7
MIN	4.0	3.7	3.0	1.8	2.0	2.1	7.9	11	3.3	1.8	1.3	1.2
AC-FT	264	238	215	149	121	248	894	940	391	176	119	85

WTR YR 1987 TOTAL 1936.5 MEAN 5.31 MAX 24 MIN 1.2 AC-FT 3840

e Estimated

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM, NEAR FRUITLAND, UT

LOCATION.--Lat 40°19'51", long 111°02'56", in NE¼SE¼SE¼ sec.6, T.2 S., R.10 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 700 ft below Currant Creek Dam, 1.0 mi above Red Ledge Hollow, and 14 mi northwest of Fruitland.

DRAINAGE AREA.--48.0 mi^2.

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,550 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Currant Creek Reservoir, total capacity, 15,670 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 558 ft^3/s May 14, 1984, gage height, 5.58 ft; minimum daily, 0.63 ft^3/s April 10, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45 ft^3/s July 24, gage height, 2.41 ft; minimum daily discharge, 6.8 ft^3/s Sept. 16-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	8.5	8.2	7.1	8.2	8.5	11	22	23	18	15	9.4
2	8.9	8.5	8.2	7.1	8.2	8.5	17	22	23	18	15	9.4
3	8.9	8.5	8.2	7.1	8.2	8.4	20	22	23	18	15	9.4
4	8.9	8.5	8.2	7.1	8.2	8.2	23	22	23	18	14	9.4
5	8.9	8.5	8.2	7.2	8.3	8.2	23	22	23	18	12	9.4
6	8.8	8.5	8.2	7.3	8.5	8.2	19	22	23	15	12	9.4
7	8.7	8.4	8.2	7.3	8.5	8.2	15	22	23	15	13	9.4
8	8.7	8.2	8.1	7.5	8.5	8.2	14	22	23	14	12	9.4
9	8.7	8.2	7.9	7.3	8.5	8.3	14	22	23	14	12	9.4
10	8.7	8.2	7.9	7.3	8.6	8.3	14	21	23	14	12	9.0
11	8.8	8.8	7.9	7.3	8.8	8.5	14	21	23	14	12	8.8
12	8.8	7.9	7.9	7.3	8.7	8.5	14	21	23	14	12	8.4
13	8.8	7.9	7.9	7.3	8.5	8.3	14	21	23	13	9.7	8.0
14	8.8	7.9	7.9	7.3	8.5	8.2	14	22	23	12	8.8	7.3
15	8.8	7.9	7.9	7.2	8.7	8.2	14	22	23	12	8.7	6.9
16	8.8	7.9	7.8	7.1	8.8	8.2	14	22	23	10	8.8	6.8
17	8.8	7.8	7.7	7.2	8.5	8.0	14	22	23	10	8.7	6.8
18	8.8	7.6	7.6	7.3	8.2	7.4	14	22	23	11	8.1	6.8
19	8.7	7.7	7.6	7.3	8.2	7.2	14	22	19	11	7.9	6.8
20	8.7	7.6	7.6	7.3	8.4	7.2	14	22	19	11	7.8	6.8
21	8.6	7.7	7.6	7.3	9.4	7.2	18	22	19	13	7.9	6.8
22	8.5	7.7	7.6	7.5	9.4	7.3	22	22	18	13	7.8	6.8
23	8.4	7.7	7.6	7.6	9.0	7.3	21	22	18	15	7.9	6.8
24	8.2	7.8	7.6	7.6	8.5	7.3	21	22	21	17	9.0	6.8
25	8.2	7.9	7.3	7.6	8.5	7.2	22	22	22	15	9.2	6.8
26	8.2	8.1	7.2	7.6	8.5	7.1	22	22	22	15	9.1	6.8
27	8.7	8.2	7.1	7.9	8.5	7.1	22	22	19	15	9.1	6.9
28	9.4	8.2	7.2	7.9	8.5	7.1	22	22	17	15	9.1	7.1
29	9.4	8.2	7.3	7.9	---	7.1	22	22	18	15	9.1	7.1
30	8.8	8.2	7.3	7.9	---	7.1	22	22	19	15	9.1	7.1
31	8.0	---	7.2	7.9	---	8.4	---	23	---	15	9.1	---
TOTAL	270.9	242.7	240.1	229.6	239.3	242.9	524	679	645	443	320.9	236.0
MEAN	8.74	8.09	7.75	7.41	8.55	7.84	17.5	21.9	21.5	14.3	10.4	7.87
MAX	9.5	8.8	8.2	7.9	9.4	8.5	23	23	23	18	15	9.4
MIN	8.0	7.6	7.1	7.1	8.2	7.1	11	21	17	10	7.8	6.8
AC-FT	537	481	476	455	475	482	1040	1350	1280	879	637	468

CAL YR 1986 TOTAL 753.7 MEAN 8.19 MAX 9.5 MIN 7.1 AC-FT 1490
WTR YR 1987 TOTAL 4313.4 MEAN 11.8 MAX 23 MIN 6.8 AC-FT 8560

09288000 CURRANT CREEK NEAR FRUITLAND, UT

LOCATION.--Lat 40°12'01", long 110°54'25", in NE¼SE¼SW¼ sec.21, T.3 S., R.9 W., Uintah Meridian, Wasatch County, Hydrologic Unit 14060004, on left bank 150 ft downstream from Deep Creek, 150 ft upstream from bridge on U.S. Highway 40 and 3.5 mi southwest of Fruitland.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 6,670 ft from topographic map. Aug. 6, 1952 to Nov. 8, 1966, water-stage recorder at site 150 ft downstream at datum 1.30 ft lower. See WSP 1733 for history of changes prior to Aug. 6, 1952.

REMARKS.--No estimated daily discharges. Records good. Currant Creek feeder canal, constructed by the Bureau of Reclamation in 1936, diverts water from headwaters of Currant Creek to Strawberry Reservoir, from which it is diverted through Strawberry Tunnel to the Great Basin for irrigation in Strawberry Valley project. Beginning in 1962, Deep Creek was diverted intermittently into private fish ponds and entered Currant Creek 400 ft below gage. However, since approximately 1976 when the upstream pond washed out Deep Creek has been entering Currant Creek 30 ft above gage. Flow partially regulated by Currant Creek Reservoir 15 miles upstream, beginning Oct. 4, 1982. Total capacity, 15,670 acre-ft.

AVERAGE DISCHARGE.--48 years (water years 1935-82), 46.0 ft^3/s, 33,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,260 ft^3/s May 4, 1952, gage height, 2.72 ft, site and datum then in use; maximum gage height, 5.92 ft, Jan. 27, 1974, backwater from ice; minimum recorded, 3.6 ft^3/s Aug. 9, 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 345 ft^3/s Aug. 23, gage height, 2.86 ft; minimum, 18 ft^3/s Dec. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	45	41	41	39	41	49	56	53	44	35	26
2	58	45	41	39	40	41	53	60	53	41	34	26
3	55	45	42	38	38	42	57	57	53	41	33	26
4	50	45	42	41	39	46	60	56	53	41	32	27
5	48	46	42	41	38	48	60	55	53	41	31	28
6	47	45	42	40	40	49	61	55	54	41	31	28
7	47	45	42	39	43	50	60	54	65	38	33	28
8	46	45	42	32	44	52	60	54	56	36	31	28
9	46	44	38	31	43	52	57	55	53	35	29	27
10	45	45	34	36	42	47	55	55	57	35	27	26
11	46	43	37	40	42	43	53	55	51	34	27	25
12	46	45	40	40	42	43	51	56	51	35	29	26
13	46	44	39	39	42	45	47	56	52	35	28	26
14	45	44	40	37	43	42	47	55	54	38	28	26
15	44	44	39	32	44	42	52	55	51	34	28	26
16	44	44	41	34	43	41	53	55	52	35	27	25
17	44	44	38	33	41	42	54	55	48	38	26	25
18	53	43	38	38	41	41	55	58	47	36	24	25
19	51	48	42	42	40	40	53	64	45	33	24	25
20	50	45	39	36	40	39	51	59	44	33	23	25
21	47	44	37	37	40	38	49	58	44	36	25	25
22	46	43	36	39	42	41	53	57	43	37	27	24
23	46	42	39	41	43	39	54	57	43	35	47	24
24	46	43	37	41	43	39	54	58	43	35	36	24
25	45	42	35	41	42	40	55	58	44	36	30	23
26	46	42	36	41	40	39	56	58	45	36	28	24
27	45	42	42	40	41	40	56	57	43	44	27	26
28	46	42	38	40	40	39	54	54	42	38	26	26
29	47	43	37	39	---	38	55	54	45	38	26	27
30	46	42	37	40	---	39	55	53	45	37	25	26
31	45	---	34	39	---	42	---	53	---	37	26	---
TOTAL	1464	1319	1207	1187	1155	1320	1629	1742	1482	1151	903	773
MEAN	47.2	44.0	38.9	38.3	41.2	42.6	54.3	56.2	49.4	37.1	29.1	25.8
MAX	58	48	42	42	44	52	61	64	65	44	47	28
MIN	44	42	34	31	38	38	47	53	42	33	23	23
AC-FT	2900	2620	2390	2350	2290	2620	3230	3460	2940	2280	1790	1530

CAL YR 1986 TOTAL 21700 MEAN 59.5 MAX 151 MIN 30 AC-FT 43040
WTR YR 1987 TOTAL 15332 MEAN 42.0 MAX 65 MIN 23 AC-FT 30410

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT

LOCATION.--Lat 40°09'17", long 110°33'15", in SE¼SW¼SW¼ sec.3, T.4 S., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060004, on right bank 150 ft downstream from County Road bridge, 2,000 ft upstream from maximum high-water line of Starvation Reservoir, and 7.9 mi west of Duchesne.

DRAINAGE AREA.--917 mi^2 (includes approximately 170 mi^2 tributary to Strawberry Reservoir).

PERIOD OF RECORD.--May 1968 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,722 ft (Rabbit Gulch Quadrangle which gives bridge elevation).

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Strawberry Reservoir since July 14, 1912. Capacity, 1,106,500 acre-ft since June 30, 1973; 283,000 acre-ft prior to June 30, 1973. New earthfilled dam located 7 mi below old dam was completed in September 1972 and storage began June 30, 1973. The elevation of new reservoir reached the elevation of the old reservoir on March 15 and the old dam was breached on June 6, 1985. Water Hollow Tunnel will divert 600 ft^3/s to the reservoir during spring runoff when series of tunnels and small reservoirs are completed on Rock Creek, West Fork Duchesne River, and Current Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,090 ft^3/s May 31, 1983, gage height, 8.29 ft; maximum gage height, 10.16 ft Jan. 2, 1983, result of an ice jam; minimum recorded, 17 ft^3/s June 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 222 ft^3/s May 2; minimum daily, 85 ft^3/s Jan. 9, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	129	112	e110	e105	110	127	211	e150	e120	e150	96
2	151	127	121	e105	e110	108	163	222	e150	e115	e145	95
3	137	128	123	e105	e100	108	170	212	e150	e115	e140	91
4	136	128	129	e110	e105	113	181	203	e150	e115	e135	93
5	136	128	118	e110	e100	124	180	187	e150	e115	e130	94
6	134	127	115	e110	e105	140	183	181	e155	e110	e130	95
7	127	126	115	e105	e110	134	198	178	e180	e105	e135	95
8	128	125	113	e90	e115	135	e185	188	e165	e105	e130	95
9	127	122	e105	e85	e110	136	e180	183	e150	e100	e120	96
10	127	127	e90	e95	e110	129	e170	185	e160	e100	e110	93
11	127	122	e100	e110	e110	127	e165	182	e170	e95	e110	95
12	129	128	e110	e110	e110	124	e160	176	175	e100	e120	93
13	126	123	e105	e105	e110	121	e150	176	162	e100	e115	94
14	125	123	e110	e100	e115	120	e150	167	158	e105	e115	97
15	124	123	e105	e85	e115	120	e160	158	152	e100	e115	99
16	123	122	e110	e90	e110	120	e165	154	147	98	e115	95
17	122	122	e100	e90	110	119	e170	156	142	125	e110	94
18	150	122	e100	e100	105	122	e170	166	128	166	e100	94
19	167	127	e115	e110	106	121	e165	179	115	130	e100	97
20	154	126	e110	e95	104	118	e155	e170	113	126	e95	98
21	147	122	e105	e100	104	111	e150	e165	117	145	e100	98
22	141	121	e100	e105	109	119	e160	e160	110	163	e110	96
23	135	117	e105	e110	114	117	e170	e160	116	153	e200	94
24	133	119	e100	e110	110	111	e165	e160	115	147	e160	94
25	131	120	e95	e110	107	119	e170	e165	119	166	e125	97
26	132	116	e100	e110	107	116	e175	e165	120	186	110	99
27	132	117	e115	e110	107	116	e180	e160	122	185	107	96
28	131	120	e105	e110	105	115	e185	e155	123	e160	102	99
29	129	119	e100	e105	---	111	e190	e150	e130	e160	100	102
30	129	117	e100	e110	---	113	193	e150	e125	e155	96	103
31	130	---	e95	e105	---	121	---	e150	---	e155	94	---
TOTAL	4196	3693	3326	3205	3028	3726	5085	5374	4219	4009	3726	2876
MEAN	135	123	107	103	108	120	169	173	141	129	120	95.9
MAX	176	129	129	110	115	140	198	222	180	186	200	103
MIN	122	116	90	85	100	108	127	150	110	95	94	91
AC-FT	8320	7330	6600	6360	6010	7390	10090	10660	8370	7950	7390	5700

CAL YR 1986	TOTAL	83602	MEAN	229	MAX	903	MIN	90	AC-FT	165800
WTR YR 1987	TOTAL	46463	MEAN	127	MAX	222	MIN	85	AC-FT	92160

e Estimated

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°35'24", long 110°31'35", in SW¼SE¼SE¼ sec.35, T.3 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft upstream from head of Moon Lake at maximum stage, 2 mi upstream from Brown Duck Creek, 16 mi northeast of Mountain Home.

DRAINAGE AREA.--77.9 mi^2.

PERIOD OF RECORD.--April 1933 to September 1934 (published as West Fork of Lake Fork above Moon Lake, near Mountain Home); July 1942 to September 1955, October 1963 to September 1965 (published as Lake Fork above Moon Lake, near Mountain Home); October 1965 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,180 ft from topographic map. April 1933 to September 1934, at site 2.5 mi upstream at different datum. July 13, 1942 to July 26, 1949, at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--37 years (water years 1943-55, 1964-87), 115 ft^3/s, 83,320 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft^3/s June 26, 1944, gage height, 5.27 ft, datum then in use, from rating curve extended above 700 ft^3/s; minimum daily recorded, 13 ft^3/s Apr. 14, 1933.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 7	1900	*1,070	*4.34	No other peak greater than base discharge.			

Minimum daily discharge, 20 ft^3/s, Mar. 14-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	e49	e43	e26	e24	e22	e30	e171	378	190	164	76
2	68	e48	e43	e24	e24	e22	e31	e170	355	169	148	75
3	67	e48	e41	e24	e24	e22	e33	e152	430	152	129	74
4	65	e47	e40	e25	e24	e22	e34	e149	558	143	116	88
5	66	e49	e39	e26	e25	e22	e35	e165	597	132	110	76
6	66	e48	e38	e27	e24	e22	e36	e200	623	122	110	71
7	64	e45	e38	e28	e24	e23	e37	e230	752	114	156	72
8	e61	e47	e36	e27	e23	e22	e39	319	679	110	114	69
9	e60	e47	e32	e26	e23	e21	e39	362	574	108	106	65
10	e58	e43	e27	e25	e23	e22	e39	437	561	106	111	64
11	e57	e45	e26	e26	e23	e21	e40	485	590	110	128	63
12	e56	e45	e29	e26	e24	e21	e38	543	605	100	121	62
13	e56	e44	e31	e26	e24	e21	e36	658	587	95	118	60
14	e56	e44	e32	e25	e24	e20	e39	689	544	91	161	60
15	e55	e44	e32	e24	e26	e20	e46	680	572	88	176	61
16	e54	e43	e31	e23	e24	e20	e50	750	536	87	157	58
17	e55	e43	e32	e23	e26	e22	e60	714	431	177	123	57
18	e59	e44	e30	e24	e25	e23	e70	667	381	203	112	55
19	e63	45	e30	e24	e24	e22	e70	565	357	118	108	54
20	e62	44	e30	e23	e23	e22	e62	468	330	106	101	53
21	e61	44	e30	e23	e23	e22	e59	386	311	165	100	52
22	e59	45	e28	e23	e23	e22	e66	327	288	130	103	51
23	e56	45	e28	e24	e22	e23	e74	280	238	108	109	51
24	e57	40	e28	e24	e22	e22	e85	261	222	101	112	50
25	e54	e38	e26	e24	e24	e22	e93	232	213	98	104	50
26	e56	e35	e26	e24	e24	e22	e97	213	203	107	95	50
27	e52	e36	e26	e24	e23	e23	e101	205	192	146	90	48
28	e54	e37	e26	e23	e23	e24	e110	188	193	129	86	47
29	e52	e38	e26	e22	---	e25	e134	179	207	200	83	47
30	e51	e39	e26	e22	---	e27	e150	182	202	195	78	46
31	e50	---	e25	e24	---	e29	---	255	---	194	76	---
TOTAL	1812	1309	975	759	665	693	1833	11285	12709	4094	3604	1805
MEAN	58.5	43.6	31.5	24.5	23.7	22.4	61.1	364	424	132	116	60.2
MAX	68	49	43	28	26	29	150	750	752	203	176	88
MIN	50	35	25	22	22	20	30	149	192	87	76	46
AC-FT	3590	2600	1930	1510	1320	1370	3640	22380	25210	8120	7150	3580

CAL YR 1986 TOTAL 56884 MEAN 156 MAX 1460 MIN 23 AC-FT 112800
WTR YR 1987 TOTAL 41543 MEAN 114 MAX 752 MIN 20 AC-FT 82400

e Estimated

09290500 MOON LAKE RESERVOIR NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'43", long 110°29'21", in NW¼NE¼NE¼ sec.19, T.2 N., R.5 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, at dam on Lake Fork River, 1.4 mi downstream from Brown Duck Creek, 10.5 mi upstream from Yellowstone River, and 12.5 mi northwest of Mountain Home.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--December 1937 to current year.

REVISED RECORDS.--WDR UT-77-1: 1975.

GAGE.--Nonrecording gage read once daily on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir formed by earthfill, rock-faced dam with concrete core. Storage began Dec. 9, 1937. Capacity, 35,760 acre-ft between elevations 8,072.00 ft, crest of original outlet of lake, about 2,000 ft upstream from dam, and 8,137.00 ft, top of spillway gates. Elevation of spillway crest is 8,121.00 ft and elevation of sill of outlet works is 8,054.16 ft. Dead storage between sill of outlet and crest of original outlet of lake, 2,050 acre-ft. Total dead storage, 13,740 acre-ft. Figures given herein represent usable contents. Water is used for irrigation on lands under Moon Lake Water Users Association and Uintah Indian Irrigation projects.

COOPERATION.--Capacity table provided by Bureau of Reclamation. Gage heights furnished by Moon Lake Water Users Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,560 acre-ft July 10, 11, 1950; elevation, 8,139.30 ft; minimum observed, 226 acre-ft Sept. 30, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 35,070 acre-ft July 1, elevation, 8,136.1 ft; minimum contents observed, 16,300 acre-ft Oct. 1, elevation, 8,108.7 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*16,590	-
Oct. 31	-	*20,600	+4,010
Nov. 30	-	*24,010	+3,410
Dec. 31	8,123.20	25,650	+1,640
CAL YR 1986	-	-	+7,050
Jan. 31	-	*27,040	+1,390
Feb. 28	-	*27,820	+780
Mar. 31	-	*28,670	+850
Apr. 30	-	*25,440	-3,230
May 31	-	*34,150	+8,710
June 30	-	*34,840	+690
July 31	-	*27,520	-7,320
Aug. 31	-	*19,520	-8,000
Sept. 30	-	*15,420	-4,100
WTR YR 1987	-	-	-1,170

* No gage reading, contents interpolated.
Readings normally made on the first of each month.

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT

LOCATION.--Lat 40°33'23", long 110°29'02", in SW¼SW¼NW¼ sec.20, T.2 N., R.6 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Ashley National Forest, on right bank 2,000 ft downstream from Moon Lake Dam, 2 mi downstream from Brown Duck Creek, and 12 mi northwest of Mountain Home.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--September 1921 to September 1934 (fragmentary), April 1942 to current year. Published as West Fork of Lake Fork near Mountain Home 1921-34, and as Lake Fork below Moon Lake, near Mountain Home 1942-85.

REVISED RECORDS.--WSP 1313: 1930 (M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,970 ft by barometer. Prior to April 1942, at damsite 2,000 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Moon Lake Reservoir (see station 09290500). No diversion above station.

AVERAGE DISCHARGE.--45 years (1942-87), 130 ft^3/s, 94,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 2,180 ft^3/s June 19, 1949 (gage height, 4.83 ft), from rating curve extended above 860 ft^3/s; maximum gage height, 5.46 ft June 26, 1944; no flow at times when reservoir gates are closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,450 ft^3/s June 7, gage height, 4.35 ft; minimum discharge, no flow many days during October - December.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	.00	.00	e8.8	e10	e9.6	e9.6	486	420	315	153	293
2	50	.00	.00	e8.8	e10	e10	e9.6	524	429	306	152	280
3	54	.00	1.9	e8.5	e11	e10	e9.8	521	427	303	186	278
4	e44	.00	1.5	e8.5	e11	e9.8	e9.8	516	432	297	227	266
5	e38	.00	2.9	e8.4	e10	e9.8	e10	512	428	291	225	248
6	e28	.00	4.2	e8.1	e9.4	e10	e10	507	570	296	224	240
7	e13	.00	5.0	7.6	e9.6	e9.8	e9.8	432	907	354	222	275
8	18	.00	5.6	7.6	e9.8	e10	e10	406	1000	370	246	293
9	30	.00	e12	8.2	e9.6	e10	e11	406	659	362	285	293
10	31	.00	e12	8.3	e10	e9.8	e10	397	474	358	348	298
11	33	.00	e12	8.3	e10	e10	e10	308	679	379	356	311
12	30	.00	e11	8.0	e11	e11	e10	293	678	374	370	309
13	30	.00	e11	7.8	e11	e10	e12	279	653	383	378	308
14	21	.00	e10	8.2	e10	e11	e29	260	612	429	358	247
15	.00	.00	e10	8.2	e10	e11	e44	242	645	422	315	213
16	.00	.00	e11	e8.6	e9.4	e11	e48	247	556	416	301	204
17	.00	.00	e11	e8.7	e9.4	e11	e58	250	486	410	310	179
18	.00	.00	e11	e8.8	e9.8	e12	e58	251	437	323	317	118
19	.00	.00	e10	e8.4	e9.6	e11	e58	251	415	263	384	63
20	.00	.00	e9.8	e8.4	e9.8	e10	e87	250	379	267	375	63
21	.00	.00	e9.8	e8.4	e9.2	e9.6	e122	253	364	298	357	2.7
22	.00	.00	e10	e8.6	e9.6	e9.6	e122	254	363	241	380	.00
23	.00	.00	e9.8	e8.6	e9.9	e9.6	e136	260	305	253	381	.00
24	.00	.00	e9.6	e8.8	e10	e9.8	e148	288	270	295	331	.00
25	.00	.00	e9.6	e9.0	e11	e9.6	e132	313	264	328	296	.00
26	.00	.00	e9.4	e11	e11	e9.4	e148	407	316	342	326	.00
27	.00	.00	e9.2	e12	e10	e9.2	e403	435	323	224	328	.00
28	.00	.00	e9.2	e11	e9.6	e9.2	e435	434	334	158	325	.00
29	.00	.00	e9.0	e10	---	e9.2	406	435	328	158	349	.00
30	.00	.00	e9.0	e11	---	e9.6	404	432	323	153	358	.00
31	.00	---	e9.0	e10	---	e9.8	---	430	---	153	316	---
TOTAL	476.00	.00	255.50	274.6	279.9	311.4	3092.6	11257	14533	9503	9438	4773.70
MEAN	15.4	.00	8.24	8.86	10.0	10.0	103	363	484	307	304	159
MAX	56	.00	12	12	11	12	406	524	1000	429	384	311
MIN	.00	.00	.00	7.6	9.2	9.2	9.6	242	264	153	152	.00
AC-FT	944	.0	507	545	555	618	6130	22330	28830	18850	18720	9470

CAL YR 1986 TOTAL 731.50 MEAN 7.95 MAX 56 MIN .00 AC-FT 1450
WTR YR 1987 TOTAL 54196.60 MEAN 148 MAX 1000 MIN .00 AC-FT 107500

e Estimated

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT

LOCATION.--Lat 40°30'43", long 110°20'27", in SW¼SW¼NE¼ sec.4, T.1 N., R.4 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 1.5 mi downstream from powerplant of Moon Lake Electric Association, Inc., 2 mi downstream from Hell Canyon, 8.2 mi northwest of Altonah.

DRAINAGE AREA.--132 mi^2.

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1965, published as Yellowstone Creek near Altonah.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,430 ft from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--43 years, 142 ft^3/s, 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,240 ft^3/s June 19, 1983, gage height, 4.24 ft, maximum gage height, 4.63 ft June 16, 1986; minimum daily, 24 ft^3/s Nov. 28, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	2300	1,180	3.29	June 7	2200	*1,620	*3.55

Minimum daily discharge, 50 ft^3/s Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

1	e111	102	85	e54	e56	e52	55	151	580	270	264	142
2	e109	102	87	e55	e56	e51	56	149	563	244	243	150
3	e116	103	80	e56	e56	e50	57	138	633	229	220	150
4	e119	100	82	e57	e56	e51	55	140	811	210	198	193
5	e112	100	80	e59	e60	e52	53	164	868	199	184	181
6	e142	99	77	e61	e56	e54	53	179	895	188	181	171
7	e112	98	78	e63	e54	e55	57	234	1110	179	212	171
8	e132	92	78	e61	e55	e56	59	302	911	173	185	165
9	e112	91	78	e58	e55	e56	58	369	708	176	173	153
10	e68	98	e60	e57	e54	e57	58	460	651	167	182	140
11	e71	95	e64	e59	e55	e53	59	517	707	169	175	135
12	e81	97	e70	e60	e56	e58	56	564	726	159	166	131
13	e100	92	e72	e59	e54	59	54	676	721	150	159	126
14	e111	92	e72	e57	e56	58	55	798	683	146	198	123
15	e110	91	e72	e54	e60	57	62	858	657	142	208	122
16	e112	90	e72	e53	e57	57	89	969	627	138	210	115
17	107	89	e70	[illegible]	e59	55	77	886	500	226	177	112
18	115	88	e66	e54	e58	56	85	803	438	301	161	108
19	121	89	e68	e55	e55	55	82	741	404	199	152	102
20	126	89	e69	e54	e54	54	68	665	392	170	149	101
21	121	87	e65	e52	e54	51	63	578	354	219	150	100
22	118	89	e64	e52	e53	57	68	517	356	205	171	99
23	115	90	e64	e53	e51	56	82	460	314	174	182	97
24	112	90	e61	e55	e52	55	93	442	293	160	207	95
25	111	89	e58	e55	e55	55	98	421	289	152	196	95
26	109	86	e59	e56	e56	52	98	411	281	173	183	97
27	109	90	e60	e56	e54	54	104	382	265	262	171	94
28	109	88	e60	e56	e53	52	119	359	265	230	166	94
29	106	82	e59	e63	---	51	130	345	265	290	160	92
30	107	82	e58	e60	---	50	141	343	276	301	154	92
31	102	---	e59	e56	---	54	---	412	---	317	146	---
TOTAL	3408	2762	2139	1752	1546	1691	2224	14421	16543	6312	5693	3746
MEAN	110	92.1	69.0	56.5	55.3	54.5	74.1	465	551	204	184	125
MAX	142	103	87	63	60	59	141	969	1110	317	264	193
MIN	68	82	58	52	51	50	53	138	265	138	146	92
AC-FT	6760	5480	4240	3480	3070	3350	4410	28600	32810	12520	11290	7430

CAL YR 1986 TOTAL 78037 MEAN 214 MAX 1620 MIN 45 AC-FT 154800
WTR YR 1987 TOTAL 62239 MEAN 171 MAX 1110 MIN 50 AC-FT 123500

e Estimated

09295000 DUCHESNE RIVER AT MYTON, UT

LOCATION.--Lat 40°12'01", long 110°03'47", in NE¼NW¼NW¼ sec.2?, T.3 S., R.2 W., Uintah Meridian, Duchesne County, Hydrologic Unit 14060003, on left bank at Myton, 3 mi downstream from Lake Fork.

DRAINAGE AREA.--2,643 mi².

PERIOD OF RECORD.--October 1899 to December 1902, April to December 1903, March to December 1904, March to July and September to November 1905, April to July 1906, April to December 1907, March to December 1908, April to December 1909, March to November 1910, July 1911 to current year. Published as "at Price road bridge" 1899-1902.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,061.48 ft NGVD of 1929. Prior to Oct. 1?, 1933, nonrecording gages at several sites within 0.5 mi of present site at various datums.

AVERAGE DISCHARGE.--79 years (1899-1902, 1911-87), 519 ft³/s, 376,000 acre-ft/yr.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobble Creek ditch, and Strawberry River and Willow Creek ditch.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 12,000 ft³/s June 10, 1922, gage height, 7.94 ft site and datum then in use, from rating curve extended above 8,000 ft³/s; maximum gage height, 8.35 ft June 22, 24, 1983; minimum, less than 1 ft³/s July 16, 1931, and for several days in August and September 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,450 ft³/s June 8, gage height, 5.47 ft; minimum daily, 51 ft³/s Apr. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	563	447	294	346	288	342	123	772	160	271	344
2	354	550	437	311	328	299	372	138	773	149	222	349
3	433	543	447	310	287	298	380	102	703	123	178	265
4	347	541	449	319	277	308	380	87	780	98	128	198
5	423	537	456	326	272	318	385	82	980	79	93	198
6	411	552	461	307	288	337	287	80	941	74	93	196
7	413	566	464	298	269	340	224	105	1320	70	181	196
8	452	531	448	300	268	362	278	109	2080	72	202	193
9	461	530	429	281	266	380	338	101	1860	109	164	184
10	460	541	388	368	267	363	351	151	1230	113	156	179
11	481	543	378	419	277	356	250	374	1270	110	174	167
12	509	552	418	444	259	343	249	621	1310	122	148	156
13	496	533	421	404	239	337	212	615	1240	108	120	168
14	536	514	445	390	229	343	188	767	1120	87	120	176
15	447	516	486	327	192	329	203	846	895	84	104	172
16	424	512	450	319	191	339	206	918	1030	73	104	175
17	441	505	451	310	181	335	188	1160	710	74	171	109
18	466	497	425	306	181	316	172	1580	506	321	116	99
19	547	492	417	372	174	326	158	1620	363	251	83	90
20	574	493	424	360	173	319	139	1430	278	182	65	92
21	555	487	429	339	e185	351	121	1220	225	174	83	85
22	531	479	400	343	198	345	81	1020	191	195	103	73
23	552	461	281	369	204	349	64	774	160	157	107	68
24	553	461	285	361	196	343	51	672	140	67	108	76
25	527	475	265	406	178	342	60	645	108	61	673	123
26	513	467	276	438	198	341	77	722	110	61	284	124
27	525	444	276	448	215	338	92	845	93	82	215	108
28	565	456	278	428	202	333	150	733	89	123	175	107
29	568	475	291	424	---	330	146	699	57	258	167	118
30	562	465	287	417	---	322	114	784	113	602	170	110
31	568	---	296	396	---	333	---	659	---	350	164	---
TOTAL	14880	15281	12084	11164	6590	10363	6242	19702	21347	4589	5341	4698
MEAN	480	509	390	360	235	334	208	636	712	148	172	157
MAX	574	566	486	448	346	380	385	1620	2080	602	673	349
MIN	186	444	265	281	173	288	51	80	57	61	65	68
AC-FT	29510	30310	23970	22140	13070	20560	12380	39080	42340	9100	10590	9320

CAL YR 1986 TOTAL 295337 MEAN 809 MAX 6080 MIN 77 AC-FT 585800
WTR YR 1987 TOTAL 132201 MEAN 362 MAX 2080 MIN 51 AC-FT 762400

e Estimated

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT

LOCATION.--Lat 40°35'13", long 109°55'37", in SE¼NE¼NW¼ sec.7, T.2 N., R.1 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, on left bank, 3.2 mi upstream from U.S. Forest Boundary, and 9.6 mi northeast of Whiterocks.

DRAINAGE AREA (REVISED).--113 mi².

PERIOD OF RECORD.--September 1899 to December 1903, April to December 1907, March 1908 to November 1910, October 1913 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as Whiterocks River in Canyon, 1899, and as Whiterocks Creek near Whiterocks, 1910-25. November 1917 to June 1921 United States Whiterocks Canal diverted above station (records equivalent if flow of Whiterocks Canal is included).

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map. Prior to Oct. 16, 1930, nonrecording gages at several sites within 2 mi of present site at various datums. Oct. 16, 1930 to Nov. 26, 1984, water-stage recorder at various sites and datums about 3 mi downstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow slightly regulated by small mountain lakes.

AVERAGE DISCHARGE.--80 years (water years 1900-03, 1909-10, 1913-87), 124 ft³/s, 89,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s, June 22, 1933, gage height, 5.20 ft, from rating curve extended above 2,000 ft³/s, site and datum then in use; minimum recorded, 9.2 ft³/s Apr. 3, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 16	2200	*852	*5.00	June 7	2400	617	4.50

Minimum daily discharge, 24 ft³/s, Mar. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	65	43	e42	e34	32	26	200	470	223	191	109
2	98	65	50	e41	35	30	27	173	431	208	170	110
3	96	66	51	e40	37	29	28	136	432	199	166	107
4	86	63	48	e41	32	29	29	127	470	189	154	113
5	85	64	43	e40	33	29	27	160	505	184	147	109
6	82	64	41	e38	32	30	27	212	509	177	156	100
7	87	53	41	e37	33	30	30	263	564	169	165	100
8	90	53	39	e35	36	32	29	288	557	168	149	98
9	89	53	27	e33	33	32	30	296	510	161	141	95
10	92	57	29	e31	30	30	30	346	483	157	148	92
11	97	57	42	e30	28	30	30	387	432	154	146	89
12	87	61	44	e30	28	31	29	404	422	157	157	89
13	87	55	46	e30	28	30	26	513	404	155	140	87
14	83	54	50	e30	28	30	28	520	394	173	171	85
15	80	53	52	e30	28	29	33	541	380	177	195	87
16	78	50	58	e27	29	29	38	602	387	171	177	75
17	76	50	50	e25	29	28	45	616	349	199	153	64
18	80	50	47	e25	29	28	54	578	315	206	142	63
19	80	50	57	e27	29	28	54	543	294	183	137	61
20	79	48	62	e30	29	28	39	531	279	189	133	58
21	79	47	59	e31	29	26	35	477	269	185	131	58
22	80	47	56	e29	33	30	39	428	259	209	127	56
23	78	46	e54	e29	30	32	65	382	251	176	130	54
24	76	48	e48	e32	29	30	95	367	260	164	141	54
25	74	47	e50	e37	30	27	104	346	244	161	140	53
26	72	43	e51	e41	31	28	115	333	236	159	122	53
27	72	46	e48	e40	30	26	132	314	227	169	126	52
28	71	45	e45	e36	32	24	145	303	220	174	123	50
29	68	44	e43	e33	---	27	145	302	222	187	118	50
30	68	42	e40	e32	---	30	176	321	239	189	116	50
31	67	---	e37	e32	---	27	---	390	---	191	110	---
TOTAL	2522	1586	1451	1034	864	901	1710	11393	11014	5568	4522	2321
MEAN	81.4	52.9	46.8	33.4	30.9	29.1	57.0	368	367	180	146	77.4
MAX	98	66	62	42	37	32	176	616	564	223	195	113
MIN	67	42	27	25	28	24	26	127	220	154	110	50
AC-FT	5000	3150	2880	2050	1710	1790	3390	22600	21850	11040	8970	4600

CAL YR 1986 TOTAL 60970 MEAN 167 MAX 1620 MIN 24 AC-FT 120900
WTR YR 1987 TOTAL 44886 MEAN 123 MAX 616 MIN 24 AC-FT 89030

e Estimated

09302000 DUCHESNE RIVER NEAR RANDLETT, UT

LOCATION.--Lat 40°12'56", long 109°46'58", in SW¼SW¼SW¼ sec.16, T.3 S., R.2 E., Uintah Meridian, Uintah County, Hydrologic Unit 14060003, Uintah and Ouray Indian Reservation, on left bank 0.25 mi downstream from Uintah River, 1.2 mi southeast of Randlett, and 6.5 mi southeast of Fort Duchesne.

DRAINAGE AREA.--4,247 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,756.1 ft NGVD of 1929. Prior to Aug. 23, 1944 at site 300 ft downstream at different datum. Aug. 23, 1944 to Sept. 4, 1964 at site 200 ft upstream at datum 1.87 ft higher. Sept. 5, 1964 to June 6, 1968 at site 700 ft upstream at datum 1.68 ft higher. June 7, 1968 to Aug. 31, 1970 at site 200 ft upstream at datum 1.87 ft higher. Sept. 1, 1970 to June 7, 1975 at site 300 ft upstream at datum 2.23 ft higher. June 7, 1975 to May 5, 1977 at site 200 ft upstream at datum 1.87 ft higher.

REMARKS.--Records fair. Flow regulated by several reservoirs. Large diversions above station for irrigation, including transmountain diversions to the Great Basin through Duchesne and Strawberry Tunnels, Hobble Creek ditch, Strawberry River, and Willow Creek Ditch.

AVERAGE DISCHARGE.--45 years, 613 ft^3/s, 444,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft^3/s June 20, 1983; maximum gage height, 10.22 ft June 5, 1986; minimum, 2.2 ft^3/s Aug. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,090 ft^3/s June 8, gage height, 7.96 ft; minimum daily, 110 ft^3/s Apr. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	329	829	846	417	633	549	525	313	1270	310	641	461
2	521	803	845	478	618	589	536	521	1350	297	511	499
3	1120	774	915	459	536	604	572	618	1170	278	430	454
4	794	786	893	485	513	611	558	586	1300	213	308	374
5	663	796	909	488	555	626	574	726	1740	170	269	354
6	653	800	904	480	561	683	546	712	2070	162	232	337
7	641	824	936	460	581	686	382	698	2970	152	427	328
8	645	777	905	472	584	843	439	845	4760	153	501	302
9	652	735	806	422	580	798	443	947	4460	181	429	292
10	625	743	700	466	565	751	555	941	3400	226	399	272
11	627	804	600	569	547	723	435	1220	2800	195	380	253
12	712	814	580	645	596	677	384	1080	2840	199	381	240
13	658	841	606	677	551	628	371	1810	2650	202	390	242
14	712	655	649	608	566	639	280	2120	2080	180	423	257
15	666	686	714	472	623	597	286	2500	1600	169	410	273
16	557	711	684	403	470	598	300	2890	1450	172	560	258
17	558	702	752	391	427	587	285	3880	1300	172	569	200
18	610	724	710	360	426	576	277	4790	925	475	424	154
19	732	814	705	470	386	603	222	4570	730	586	338	153
20	798	801	711	522	393	649	208	4170	506	421	294	164
21	832	805	719	489	401	700	206	3680	423	429	290	170
22	818	852	658	484	421	643	172	3260	357	420	357	169
23	813	817	555	538	440	614	139	2100	309	374	385	145
24	803	823	500	608	405	578	121	1970	272	235	519	149
25	724	865	468	662	417	548	110	1960	233	170	1200	170
26	742	870	451	773	425	547	115	1700	213	183	689	199
27	719	816	475	812	455	532	127	1720	199	217	573	189
28	792	830	481	795	499	529	147	1400	180	397	507	177
29	801	911	491	731	---	511	222	1230	163	538	464	184
30	797	901	459	742	---	499	212	1230	198	1160	425	185
31	822	---	416	730	---	499	---	1130	---	809	389	---
TOTAL	21899	23969	21023	17116	14154	19225	9750	58191	44318	9853	14114	7604
MEAN	706	799	678	552	505	620	325	1877	1477	318	455	253
MAX	1120	911	936	812	633	843	574	4790	4760	1160	1200	499
MIN	329	655	416	360	386	499	110	313	163	152	232	145
AC-FT	43440	47540	41700	33950	28070	38130	19340	115400	87900	19540	28000	15080

CAL YR 1986 TOTAL 413677 MEAN 1133 MAX 9400 MIN 130 AC-FT 820500
WTR YR 1987 TOTAL 261216 MEAN 716 MAX 4790 MIN 110 AC-FT 518100

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1951, November 1956 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1950 to September 1951, November 1956 to September 1980, June 1981 to current year.
WATER TEMPERATURES: December 1950 to September 1951, November 1956 to September 1978, October 1979 to September 1980, June 1981 to current year.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,490 microsiemens Aug. 24, 1960; minimum observed, 225 microsiemens June 22, 1983.
WATER TEMPERATURES: Maximum, 29.0°C July 22, 1982; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,770 microsiemens May 7; minimum observed, 400 microsiemens May 16.
WATER TEMPERATURES: Maximum observed, 29.0°C July 23; minimum observed, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV , 1986											
06...	1345	823	840	8.10	7.0	5.5	11.6	630	310	100	100
DEC											
11...	1645	581	820	8.50	1.0	0.0	--	--	310	92	92
JAN , 1987											
20...	1700	514	840	8.50	-10.0	0.5	13.4	641	330	100	100
FEB											
23...	1430	455	1020	8.50	9.5	4.5	13.3	641	380	150	150
MAR											
23...	1617	849	1000	8.10	8.0	7.5	11.0	633	370	150	150
APR											
24...	1455	122	1560	8.40	27.0	18.0	9.4	639	470	220	220
MAY											
26...	1635	1780	940	8.20	14.5	13.5	8.6	632	340	120	120
JUN											
29...	1500	162	1330	8.30	27.0	22.5	9.4	639	460	230	230
JUL											
27...	1545	214	1350	8.40	33.0	27.0	9.4	638	420	160	160
AUG											
25...	1615	1050	1200	8.10	24.5	16.5	7.3	640	420	250	250

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV , 1986										
06...	65	37	64	31	2	2.1	213	220	20	0.40
DEC										
11...	65	36	63	30	2	1.8	219	220	23	0.40
JAN , 1987										
20...	70	38	72	32	2	2.1	229	210	33	0.40
FEB										
23...	76	46	91	34	2	2.3	225	290	43	0.50
MAR										
23...	74	45	88	34	2	2.4	225	29C	43	0.40
APR										
24...	98	55	170	44	4	3.6	254	510	89	0.60
MAY										
26...	68	42	70	30	2	4.0	224	260	34	0.50
JUN										
29...	100	51	140	40	3	3.2	232	440	61	0.60
JUL										
27...	89	49	130	40	3	4.2	261	420	62	0.60
AUG										
25...	100	42	110	36	2	7.0	173	440	40	0.60

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV , 1986										
06...	11	546	550	0.74	1210	<0.100	0.020	0.03	<0.010	--
DEC										
11...	11	553	550	0.75	867	0.140	0.040	0.05	<0.010	--
JAN , 1987										
20...	11	582	570	0.79	838	0.260	0.100	0.13	0.050	0.15
FEB										
23...	11	696	700	0.95	855	0.170	0.040	0.05	<0.010	--
MAR										
23...	11	692	690	0.94	1210	0.100	0.010	0.01	<0.010	--
APR										
24...	6.7	1140	1100	1.6	376	<0.100	0.030	0.04	<0.010	--
MAY										
26...	16	644	630	0.88	3100	<0.100	0.050	0.06	<0.010	--
JUN										
29...	10	962	950	1.3	421	<0.100	0.040	0.05	0.030	0.09
JUL										
27...	13	904	920	1.3	569	<0.100	--	--	<0.010	--
AUG										
25...	12	889	880	1.2	2520	0.660	--	--	0.020	0.06

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV , 1986		
06...	1345	340
DEC		
11...	1645	320
JAN , 1987		
20...	1700	350
FEB		
23...	1430	350
MAR		
23...	1617	270
APR		
24...	1455	630
MAY		
26...	1635	270
JUN		
29...	1500	540
JUL		
27...	1545	610
AUG		
25...	1815	550

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	830	680	950	780	930	930	1680	720	1270	1090	1020
2	1120	800	640	880	760	860	870	1600	580	1230	1090	1080
3	1220	800	650	830	780	930	860	1510	620	1350	1200	1180
4	1390	770	660	860	790	920	890	1590	620	1360	1180	1050
5	1210	780	680	850	820	950	860	1560	530	1350	1180	1160
6	1110	770	690	---	800	820	910	1680	500	1370	1280	1130
7	1100	740	730	930	800	800	1000	1770	430	1510	1240	1160
8	990	750	730	920	780	910	1010	1690	475	1430	1170	1200
9	980	800	760	1000	850	920	990	1490	465	1440	1180	1210
10	970	750	780	850	850	870	850	1260	490	1400	1210	1180
11	960	760	790	950	850	910	920	1290	530	1310	1230	1230
12	950	780	890	770	860	850	---	740	510	1400	1220	1140
13	950	730	830	740	850	900	950	760	510	1370	1190	1180
14	850	860	830	770	940	870	1040	550	590	1380	1300	1170
15	910	880	780	920	1010	900	1060	490	---	1360	1330	1170
16	950	800	710	930	1120	930	1050	400	540	1430	1130	1120
17	940	790	750	910	1090	1040	1140	440	660	1200	1130	1210
18	930	740	710	960	1120	1010	1190	410	760	1100	1190	---
19	---	740	690	890	1090	1050	1050	490	670	1370	1300	1300
20	1010	700	710	840	1110	1040	1200	520	---	1140	1430	1300
21	1000	730	710	850	1080	1120	1280	680	1060	1170	1410	1310
22	980	700	710	800	980	1100	1330	880	1140	1220	1390	1320
23	950	710	760	860	980	980	1730	970	1130	1170	1260	1340
24	920	700	680	810	1030	1080	1700	800	1150	1220	1300	1380
25	---	720	790	810	980	950	---	[illegible]	1250	1340	1180	1390
26	880	700	780	840	1000	1010	---	960	1230	1370	1160	1340
27	840	680	770	740	950	960	1310	800	1270	1410	1140	1310
28	810	710	780	770	960	1040	1360	960	1270	1220	1130	1350
29	780	710	780	780	---	990	1500	930	1340	1710	1100	1410
30	820	710	780	820	---	930	---	890	1370	1200	1130	1330
31	810	---	830	740	---	900	---	760	---	1200	1120	---
MEAN	990	750	740	850	930	950	1110	1010	800	1320	1210	1230

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	10.0	4.0	.5	---	---	11.0	---	20.0	27.0	---	---
2	13.0	10.0	4.0	.5	---	---	11.5	---	19.5	27.0	---	---
3	13.0	9.0	4.0	.5	---	---	11.5	---	20.0	27.0	---	---
4	12.5	8.5	4.0	.0	---	---	11.5	17.0	20.5	27.0	---	---
5	12.5	8.5	4.0	.5	---	---	11.0	18.5	21.0	27.0	---	---
6	13.0	5.0	5.0	---	---	---	11.0	21.0	19.0	27.5	---	---
7	14.0	6.0	5.0	.0	---	---	13.5	21.0	17.0	28.5	---	---
8	14.0	5.0	5.0	.0	---	---	12.5	21.5	19.0	28.0	---	---
9	15.0	5.0	4.0	.5	---	---	12.5	21.5	19.0	28.0	---	---
10	15.0	5.0	1.0	.5	---	---	12.5	21.0	19.5	28.0	---	---
11	13.0	5.0	1.0	.5	---	---	12.0	21.0	25.0	27.5	---	---
12	10.0	5.0	1.0	.0	---	---	13.0	21.5	26.0	28.0	---	---
13	10.0	6.0	.0	.5	---	---	13.0	21.0	27.0	28.0	---	---
14	10.0	7.0	.0	.5	---	---	14.5	21.0	27.0	28.0	---	---
15	10.0	6.0	1.0	.0	---	---	15.0	20.5	27.0	28.0	---	---
16	10.0	7.0	1.0	.5	---	---	15.5	21.0	28.0	28.0	---	---
17	9.0	7.0	1.5	.5	---	---	15.5	19.0	27.0	28.5	---	---
18	10.0	7.0	1.5	.0	---	---	14.5	19.0	27.5	28.5	---	---
19	---	7.0	1.5	.0	---	---	14.5	18.0	27.0	28.0	---	---
20	10.0	6.0	1.5	.0	---	---	14.5	15.0	27.5	28.0	---	---
21	10.0	5.0	1.5	.0	---	---	15.0	15.0	27.5	28.0	---	---
22	10.5	5.0	1.5	.0	---	---	15.5	15.0	27.0	28.0	---	---
23	10.5	4.0	.5	.0	---	---	16.0	16.0	27.0	29.0	---	---
24	10.5	4.0	.5	.0	---	---	16.0	16.5	27.0	28.0	---	---
25	---	4.0	.0	.5	---	---	16.0	16.5	27.0	27.5	---	---
26	---	4.0	1.0	.0	---	---	16.0	15.0	28.0	27.5	---	---
27	---	3.0	.5	.0	---	---	16.0	15.0	29.0	27.5	---	---
28	---	3.0	.0	.0	---	---	16.5	15.5	28.0	27.0	---	---
29	---	4.0	.5	.0	---	---	16.5	15.5	27.0	28.0	---	---
30	---	5.0	.5	.0	---	---	---	19.5	27.0	28.0	---	---
31	---	---	1.0	1.5	---	---	---	21.5	---	28.5	---	---
MEAN	---	6.0	2.0	.0	---	---	14.0	18.5	24.5	28.0	---	---

09302000 DUCHESNE RIVER NEAR RANDLETT, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV , 1986					
06...	1345	823	5.5	112	249
JAN , 1987					
20...	1700	514	0.5	41	57
FEB					
23...	1430	455	4.5	123	151
MAR					
23...	1617	649	7.5	120	210
APR					
24...	1465	122	10.0	95	31
MAY					
28...	1636	1780	13.5	473	2270

09306500 WHITE RIVER NEAR WATSON, UTAH

LOCATION.--Lat 39°58'46", long 109°10'41", in SE¼SW¼NE¼ sec. 2, T.10 S., R.24 E., Uintah County, Hydrologic Unit 14050007, on right bank 350 ft downstream from bridge on State Highway 45, 1 mi downstream from Evacuation Creek, and 7 mi north of Watson.

DRAINAGE AREA.--4,020 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to October 1906 (no winter records), May to November 1918, April 1923 to September, 1979, October 1985 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "near Dragon" 1906 and "near Rangely, Colo." 1904-1905, 1918.

GAGE.--Water-stage recorder. Datum of gage is 4,946.78 ft above National Geodetic Vertical Datum of 1929. See WSP 1733 for history of changes prior to Oct. 27, 1959.

REMARKS.--No estimated daily discharges. Records good. Diversions for irrigation of about 31,900 acres above station.

AVERAGE DISCHARGE.--58 years (1923-79, 1986-87) 706 ft^3/s, 511,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,160 ft^3/s July 15, 1929; maximum gage height, 13.1 ft Feb. 11, 1962, from floodmark in well (backwater from ice); minimum, 11 ft^3/s Dec. 6, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 19	0900	*2,620	*4.91				

Minimum daily discharge, 250 ft^3/s Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	776	644	619	493	725	549	555	2050	1220	590	586	364
2	835	635	608	517	695	546	656	2280	1240	678	559	390
3	883	635	603	430	690	475	745	2470	1360	673	551	403
4	959	656	604	430	581	504	717	2190	1310	599	532	416
5	917	676	607	464	541	547	812	1890	1300	566	507	465
6	902	680	639	433	515	601	868	1720	1300	552	499	422
7	900	691	633	426	675	920	882	1730	1310	555	737	409
8	886	715	620	408	660	1470	930	1860	1330	558	1440	400
9	887	710	608	443	682	1380	947	1970	1510	549	803	386
10	884	674	599	443	659	1300	983	2040	1690	511	628	397
11	1100	654	615	447	607	1040	915	2120	1860	505	524	389
12	915	651	558	450	571	969	913	2130	1700	513	469	388
13	773	650	470	446	545	793	900	2100	1520	526	455	376
14	763	654	440	447	755	798	854	2100	1440	608	537	363
15	761	649	452	409	1040	800	774	2140	1400	568	596	365
16	722	658	422	250	937	807	791	2270	1320	538	619	330
17	703	660	424	335	751	801	904	2370	1230	534	598	404
18	679	663	470	357	640	791	990	2490	1140	566	554	423
19	661	655	452	479	618	799	1070	2510	1060	519	514	418
20	659	642	433	391	610	812	1240	2390	958	509	458	403
21	670	685	449	380	594	782	1270	2380	869	473	423	404
22	661	645	514	409	606	775	1170	2340	816	451	392	418
23	661	671	624	460	607	778	1130	2080	770	441	415	396
24	661	651	593	457	550	683	1170	1820	728	454	559	382
25	666	647	500	421	543	562	1330	1730	669	417	875	376
26	668	635	488	420	545	584	1520	1670	609	408	743	357
27	667	631	501	412	545	465	1620	1610	556	460	741	350
28	623	624	501	411	538	448	1710	1540	523	509	585	356
29	622	618	491	636	---	435	1890	1370	505	810	499	360
30	622	625	490	760	---	437	2080	1320	598	605	490	360
31	643	---	482	761	---	476	---	1350	---	597	440	---
TOTAL	23729	19684	16469	14025	18113	23127	32324	62070	33821	16842	18328	11668
MEAN	765	656	531	452	647	746	1077	2002	1127	543	591	389
MAX	1100	715	639	761	1040	1470	2080	2510	1860	810	1440	465
MIN	622	618	422	250	538	435	555	1320	505	408	392	330
AC-FT	47070	39040	32670	27820	35930	45870	64110	123100	67080	33410	36350	23140

CAL YR 1986 TOTAL 438404 MEAN 1201 MAX 4400 MIN 350 AC-FT 869600
WTR YR 1987 TOTAL 290206 MEAN 795 MAX 2510 MIN 250 AC-FT 575600

09306500 WHITE RIVER NEAR WATSON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1950 to September 1979, October 1985 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1950 to September 1979, October 1986 to September 1987.
WATER TEMPERATURES: December 1950 to September 1979, October 1986 to September 1987.
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to June 1979, October 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since November 1985.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 4,450 microsiemens Aug. 4, 1955; minimum daily, 266 microsiemens June 1, 1976.
WATER TEMPERATURES: Maximum recorded, 33.0°C July 15, 1977; minimum, 0.0°C many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 31,100 mg/L Aug. 8, 1987; minimum daily mean, 50 mg/L July 25, 1987.
SEDIMENT LOADS: Maximum daily, 121,000 tons Aug. 8, 1987; minimum daily, 47 tons Jan. 16, 1987.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,390 microsiemens Oct. 11; minimum recorded, 319 microsiemens Oct. 19.
WATER TEMPERATURES: Maximum recorded, 24.1°C Sept. 1; minimum observed, 0.0°C Dec. 10, Jan. 22.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 31,100 mg/L Aug. 8; minimum daily mean, 50 mg/L July 25.
SEDIMENT LOADS: Maximum daily, 121,000 tons Aug. 8; minimum daily, 47 tons Jan. 16.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV , 1986											
06...	1030	668	810	8.40	7.0	6.5	--	630	310	130	130
DEC											
10...	1430	527	880	8.50	-3.5	0.0	--	636	330	150	150
JAN , 1987											
22...	1710	408	900	8.40	-12.5	0.0	12.1	635	370	140	140
FEB											
24...	1115	576	900	8.40	1.0	2.0	11.8	625	330	130	130
MAR											
24...	1130	795	1030	8.20	7.5	6.5	10.4	631	360	150	150
APR											
21...	1245	1320	820	8.50	12.0	10.0	9.2	644	340	140	140
MAY											
28...	1130	1590	570	8.50	16.0	13.5	8.4	632	220	67	67
JUN											
30...	1100	578	750	7.90	26.0	19.5	6.8	635	220	59	59
JUL											
28...	1100	546	880	8.20	24.5	23.0	6.2	635	290	110	110
AUG											
26...	1030	704	920	8.40	18.5	17.5	7.1	640	350	170	170
SEP											
24...	1140	363	870	8.50	22.0	14.5	8.6	--	320	140	140

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV , 1986										
06...	67	35	61	30	2	1.7	179	250	15	0.20
DEC										
10...	72	36	57	27	1	3.2	178	260	10	0.30
JAN 1987										
22...	82	39	68	29	2	2.1	223	270	19	0.30
FEB										
24...	73	36	74	33	2	2.4	203	270	20	0.30
MAR										
24...	76	42	96	36	2	2.9	213	310	27	0.30
APR										
21...	72	39	68	30	2	2.4	204	280	20	0.30
MAY										
28...	50	23	36	26	1	1.7	153	140	9.0	0.20
JUN										
30...	52	23	51	33	2	2.8	166	190	14	0.30
JUL										
28...	73	28	78	37	2	4.3	178	260	21	0.50
AUG										
26...	68	43	91	36	2	4.0	181	330	16	0.50
SEP										
24...	66	38	73	33	2	2.0	181	280	20	0.40

09306500 WHITE RIVER NEAR WATSON, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
NOV , 1986 06...	11	560	550	0.76	1010	0.220	0.020	0.03	<0.010	--
DEC 10...	12	590	560	0.80	840	0.400	0.060	0.08	0.050	0.15
JAN , 1987 22...	15	630	630	0.86	694	0.580	0.080	0.10	0.020	0.06
FEB 24...	13	609	610	0.83	947	0.520	0.100	0.13	0.010	0.03
MAR 24...	12	686	690	0.93	1470	0.560	0.060	0.08	0.010	0.03
APR 21...	13	661	620	0.90	2380	0.560	0.060	0.08	0.010	0.03
MAY 28...	12	350	360	0.48	1500	0.340	0.040	0.05	<0.010	--
JUN 30...	10	427	440	0.58	666	0.300	0.100	0.13	0.050	0.15
JUL 28...	11	620	580	0.84	914	0.430	0.070	0.09	0.030	0.09
AUG 26...	9.9	683	670	0.93	1300	1.00	0.020	0.03	<0.010	--
SEP 24...	8.7	591	600	0.80	579	<0.100	0.010	0.01	--	--

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV , 1986 06...	1030	60
DEC 10...	1430	70
JAN , 1987 22...	1710	170
FEB 24...	1115	70
MAR 24...	1130	80
APR 21...	1245	90
MAY 28...	1130	50
JUN 30...	1100	70
JUL 28...	1100	190
AUG 26...	1030	120
SEP 24...	1140	80

09306500 WHITE RIVER NEAR WATSON, UT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	911	881	895	1020	925	968	887	843	853	950	910	935
2	912	863	882	951	933	941	858	760	837	930	900	918
3	1070	834	920	935	907	919	847	824	834	930	900	921
4	1030	834	905	1130	920	1000	880	820	834	920	890	908
5	845	815	826	1060	969	1020	897	853	869	900	890	896
6	827	806	817	1050	932	987	891	872	887	910	900	903
7	818	797	806	1240	897	984	905	872	888	930	900	913
8	819	798	806	900	805	859	892	870	884	930	920	925
9	810	799	803	805	725	767	893	867	879	950	920	933
10	810	781	793	770	722	752	890	860	876	960	930	942
11	1390	731	906	769	716	742	868	840	854	960	940	950
12	812	732	766	794	741	762	860	850	852	976	950	958
13	774	733	747	789	747	769	880	860	866	970	950	962
14	775	752	763	810	772	788	900	870	885	970	950	957
15	756	735	749	809	756	784	900	890	893	960	950	951
16	767	736	753	813	770	796	910	890	901	990	940	958
17	758	737	749	807	789	799	910	900	903	1030	990	1020
18	759	738	749	803	789	794	930	890	913	1040	1020	1030
19	760	749	756	818	784	800	940	910	925	1080	1040	1060
20	761	731	748	822	790	807	940	920	933	1160	1090	1120
21	791	732	754	836	785	802	940	930	939	---	---	---
22	773	752	762	862	813	841	950	930	941	---	---	---
23	863	753	770	824	796	809	940	930	939	---	---	---
24	755	735	746	819	800	806	950	930	936	---	---	---
25	756	726	743	828	796	808	940	920	931	---	---	---
26	747	727	740	841	800	823	940	930	932	---	---	---
27	758	728	742	843	805	822	940	930	936	---	---	---
28	1170	319	810	831	790	809	940	930	936	---	---	---
29	962	873	891	846	795	817	940	930	932	---	---	---
30	900	878	892	852	819	840	950	930	938	---	---	---
31	925	872	885	---	---	---	960	920	945	---	---	---
MONTH	1390	319	802	1240	716	842	960	760	899	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	640	600	620
2	---	---	---	---	---	---	---	---	---	641	571	601
3	---	---	---	---	---	---	---	---	---	621	571	593
4	---	---	---	---	---	---	---	---	---	612	551	584
5	---	---	---	---	---	---	---	---	---	622	552	592
6	---	---	---	---	---	---	---	---	---	622	572	601
7	---	---	---	---	---	---	---	---	---	653	572	612
8	---	---	---	---	---	---	---	---	---	643	593	618
9	---	---	---	---	---	---	---	---	---	633	583	606
10	---	---	---	---	---	---	---	---	---	614	563	592
11	---	---	---	---	---	---	---	---	---	604	544	571
12	---	---	---	---	---	---	---	---	---	584	524	553
13	---	---	---	---	---	---	---	---	---	585	525	548
14	---	---	---	---	---	---	---	---	---	565	515	539
15	---	---	---	---	---	---	---	---	---	555	505	531
16	---	---	---	---	---	---	---	---	---	526	487	511
17	---	---	---	---	---	---	---	---	---	496	466	483
18	---	---	---	---	---	---	---	---	---	486	446	467
19	---	---	---	---	---	---	---	---	---	497	437	462
20	---	---	---	---	---	---	---	---	---	457	427	447
21	---	---	---	---	---	---	---	---	---	568	437	454
22	---	---	---	---	---	---	---	---	---	468	428	445
23	---	---	---	---	---	---	---	---	---	488	438	462
24	---	---	---	---	---	---	---	---	---	499	448	475
25	---	---	---	---	---	---	---	---	---	509	469	489
26	---	---	---	---	---	---	---	---	---	549	479	500
27	---	---	---	---	---	---	---	---	---	530	490	513
28	---	---	---	---	---	---	---	---	---	550	510	532
29	---	---	---	---	---	---	---	---	---	570	520	546
30	---	---	---	---	---	---	690	610	610	600	530	567
31	---	---	---	---	---	---	---	---	---	600	540	574
MONTH	---	---	---	---	---	---	---	---	---	653	427	538

09306500 WHITE RIVER NEAR WATSON, UT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	857	795	827
12	---	---	---	---	---	---	---	---	---	914	811	838
13	---	---	---	---	---	---	---	---	---	861	817	836
14	---	---	---	---	---	---	---	---	---	868	825	845
15	---	---	---	---	---	---	---	---	---	896	831	864
16	---	---	---	---	---	---	---	---	---	944	860	891
17	---	---	---	---	---	---	---	---	---	895	828	867
18	---	---	---	---	---	---	---	---	---	896	834	861
19	---	---	---	---	---	---	---	---	---	923	841	880
20	---	---	---	---	---	---	---	---	---	920	858	888
21	---	---	---	---	---	---	---	---	---	917	855	884
22	---	---	---	---	---	---	---	---	---	915	862	888
23	---	---	---	---	---	---	---	---	---	932	874	902
24	---	---	---	---	---	---	---	---	---	948	845	897
25	---	---	---	---	---	---	---	---	---	946	893	913
26	---	---	---	---	---	---	---	---	---	952	890	917
27	---	---	---	---	---	---	---	---	---	939	896	912
28	---	---	---	---	---	---	---	---	---	957	884	914
29	---	---	---	---	---	---	---	---	---	984	891	922
30	---	---	---	---	---	---	---	---	---	971	898	926
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.6	10.1	12.1	9.3	8.6	8.9	2.9	1.5	2.2	.4	.1	.2
2	13.5	11.3	12.0	10.1	7.5	8.7	2.5	.7	1.5	.3	.1	.2
3	11.4	10.7	11.1	9.5	7.5	8.4	2.8	.6	1.7	.2	.1	.2
4	13.2	10.1	11.5	9.0	6.8	8.2	2.6	.9	1.8	.2	.1	.1
5	14.0	11.5	12.4	10.3	7.3	8.6	2.9	1.3	2.0	.4	.1	.2
6	14.2	11.2	12.5	8.4	6.5	7.7	2.9	2.1	2.5	.6	.1	.3
7	14.7	11.7	12.9	7.9	5.8	6.7	2.9	2.0	2.4	.5	.1	.2
8	15.0	12.0	13.2	6.8	4.5	5.9	2.8	1.7	2.2	.6	.1	.2
9	15.2	12.3	13.4	5.7	3.9	4.7	2.2	.2	1.2	.2	.1	.1
10	14.9	12.3	13.4	6.6	4.3	5.3	.2	.1	.2	.2	.1	.1
11	12.8	8.4	10.9	6.2	3.9	5.0	.2	.1	.2	.2	.1	.1
12	10.4	7.9	8.9	7.0	4.5	5.5	.2	.1	.2	.3	.1	.2
13	11.8	8.2	9.7	6.0	3.9	4.8	.2	.1	.2	.7	.1	.2
14	12.0	9.1	10.6	5.9	3.5	4.6	.3	.1	.2	.2	.1	.2
15	12.9	9.3	10.8	6.3	3.8	4.9	.3	.2	.2	.1	.1	.1
16	13.1	9.3	10.9	5.5	4.1	4.8	1.1	.1	.6	.1	.1	.1
17	12.5	9.3	10.6	5.9	4.5	5.2	.9	.2	.6	.1	.1	.1
18	13.5	10.0	11.6	5.5	3.9	4.7	.4	.1	.2	.1	.1	.1
19	12.1	10.6	11.3	6.8	4.6	5.5	.7	.1	.4	.1	.1	.1
20	12.9	9.5	11.1	5.8	4.0	4.8	1.2	.2	.6	.1	.1	.1
21	12.4	10.5	11.4	5.2	3.3	4.2	1.1	.2	.6	.1	.1	.1
22	12.1	9.7	10.9	6.0	4.4	4.9	.3	.1	.2	.1	.1	.1
23	12.7	10.7	11.5	4.6	2.8	3.7	.2	.1	.2	.1	.1	.1
24	13.7	10.6	11.8	4.4	2.4	3.3	.3	.1	.2	.1	.1	.1
25	13.3	10.0	11.5	3.8	2.7	3.3	.2	.1	.2	.1	.1	.1
26	13.4	9.9	11.4	4.7	2.8	3.7	.2	.1	.2	.1	.1	.1
27	13.4	10.0	11.4	4.2	2.4	3.3	.2	.1	.2	.1	.1	.1
28	13.5	10.2	11.5	4.2	2.3	3.2	.3	.1	.2	.1	.1	.1
29	12.9	10.2	11.3	4.2	2.9	3.4	.3	.1	.2	.1	.1	.1
30	12.4	10.2	11.2	4.3	2.9	3.6	.3	.1	.2	.1	.1	.1
31	10.8	9.0	10.1	---	---	---	.3	.1	.2	.2	.1	.1
MONTH	15.2	7.9	11.5	10.3	2.3	5.32	2.9	.1	.76	.7	.1	.14

09306500 WHITE RIVER NEAR WATSON, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.2	.1	.1	---	---	---	---	---	---	14.2	13.2	13.7
2	.2	.1	.1	---	---	---	---	---	---	13.8	12.5	13.3
3	.1	.1	.1	---	---	---	---	---	---	13.5	11.2	12.4
4	.3	.1	.1	---	---	---	---	---	---	13.4	11.2	12.4
5	.3	.1	.1	---	---	---	---	---	---	14.4	11.7	13.0
6	.3	.1	.1	---	---	---	---	---	---	15.1	12.4	13.7
7	.4	.1	.2	---	---	---	---	---	---	15.6	12.7	14.2
8	.4	.1	.2	---	---	---	---	---	---	16.1	13.6	14.9
9	.4	.1	.2	---	---	---	---	---	---	15.9	10.2	13.4
10	.6	.1	.2	---	---	---	---	---	---	16.8	10.3	14.5
11	1.2	.1	.4	---	---	---	---	---	---	17.3	15.2	16.4
12	.8	.1	.3	---	---	---	---	---	---	16.6	10.9	15.4
13	.8	.1	.3	---	---	---	---	---	---	17.3	10.3	15.0
14	.7	.1	.3	---	---	---	---	---	---	16.9	11.0	14.3
15	.7	.1	.2	---	---	---	---	---	---	12.6	11.3	12.1
16	.8	.1	.3	---	---	---	---	---	---	12.4	10.8	11.7
17	1.2	.1	.4	---	---	---	---	---	---	15.9	10.3	12.9
18	2.3	.2	1.1	---	---	---	---	---	---	16.0	10.5	14.2
19	2.0	.1	.9	---	---	---	---	---	---	16.0	10.4	13.8
20	3.6	.3	1.6	---	---	---	---	---	---	15.6	10.3	12.1
21	3.5	.1	1.5	---	---	---	---	---	---	14.2	10.3	12.4
22	3.2	.1	1.4	---	---	---	---	---	---	14.0	10.4	12.2
23	3.5	.7	1.9	---	---	---	---	---	---	15.6	10.3	12.6
24	1.3	.9	1.2	---	---	---	---	---	---	14.2	10.3	12.4
25	---	---	---	---	---	---	---	---	---	14.2	12.4	13.1
26	---	---	---	---	---	---	---	---	---	13.7	12.4	13.1
27	---	---	---	---	---	---	---	---	---	13.4	12.1	12.7
28	---	---	---	---	---	---	---	---	---	14.3	10.4	13.2
29	---	---	---	---	---	---	---	---	---	14.3	10.4	12.3
30	---	---	---	---	---	---	14.3	13.4	13.8	16.6	10.7	14.5
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	24.1	15.4	20.2
2	---	---	---	---	---	---	---	---	---	23.5	19.1	21.3
3	---	---	---	---	---	---	---	---	---	21.2	15.4	18.5
4	---	---	---	---	---	---	---	---	---	21.3	15.7	18.7
5	---	---	---	---	---	---	---	---	---	21.8	15.4	18.6
6	---	---	---	---	---	---	---	---	---	20.9	15.2	17.6
7	---	---	---	---	---	---	---	---	---	21.8	15.3	18.3
8	---	---	---	---	---	---	---	---	---	21.3	15.2	17.8
9	---	---	---	---	---	---	---	---	---	21.1	15.4	18.0
10	---	---	---	---	---	---	---	---	---	20.9	15.7	18.2
11	---	---	---	---	---	---	---	---	---	20.8	15.0	17.9
12	---	---	---	---	---	---	---	---	---	20.4	15.3	18.0
13	---	---	---	---	---	---	---	---	---	18.0	15.7	17.0
14	---	---	---	---	---	---	---	---	---	18.2	13.6	16.0
15	---	---	---	---	---	---	---	---	---	19.2	13.4	16.3
16	---	---	---	---	---	---	---	---	---	18.7	15.2	16.9
17	---	---	---	---	---	---	---	---	---	19.3	14.0	16.5
18	---	---	---	---	---	---	---	---	---	18.8	13.1	15.9
19	---	---	---	---	---	---	---	---	---	18.8	12.7	15.8
20	---	---	---	---	---	---	---	---	---	18.6	13.0	15.9
21	---	---	---	---	---	---	---	---	---	18.8	13.0	15.9
22	---	---	---	---	---	---	---	---	---	18.6	12.8	15.7
23	---	---	---	---	---	---	---	---	---	18.5	12.1	15.3
24	---	---	---	---	---	---	---	---	---	18.2	12.6	15.5
25	---	---	---	---	---	---	---	---	---	18.8	13.7	16.4
26	---	---	---	---	---	---	21.6	15.4	20.5	19.0	14.4	16.9
27	---	---	---	---	---	---	22.5	15.4	19.3	17.8	14.4	16.1
28	---	---	---	---	---	---	22.0	15.4	19.0	16.8	11.8	14.3
29	---	---	---	---	---	---	22.7	16.0	19.1	16.7	11.0	13.9
30	---	---	---	---	---	---	23.1	16.6	19.7	16.9	11.3	14.1
31	---	---	---	---	---	---	23.6	15.3	19.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	24.1	11.0	16.9

09306500 WHITE RIVER NEAR WATSON, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	e150	314	e145	252	e130	231	e103	137	e140	274	e272	403
2	e201	453	e143	245	e137	225	e101	141	e134	251	e277	408
3	e390	930	e153	262	e132	215	e95	110	e135	252	e285	366
4	e1120	2900	e167	298	e128	209	e95	110	e130	216	e328	446
5	e720	1700	e177	323	e125	205	e97	122	e132	193	e390	576
6	e400	974	e175	321	e128	221	e98	115	e128	213	e630	1020
7	e222	539	e173	323	e127	217	e101	116	e128	233	e2150	5340
8	e190	455	e172	332	e127	213	e94	104	e126	227	e4430	17600
9	e172	412	e170	326	e126	[illegible]	e95	114	e127	227	e3340	12400
10	e173	413	e167	304	e113	183	e98	117	e130	231	e2500	8770
11	e2160	8240	e164	290	e113	188	e97	117	e127	208	e1400	3930
12	e1100	2720	e157	276	e115	173	e94	114	e130	200	e1290	3380
13	e470	981	e155	272	e116	147	e95	114	e148	218	e670	1430
14	e335	690	e155	274	e116	132	e95	115	e240	489	e659	1420
15	e330	678	e153	268	e120	146	e85	94	e320	899	e650	1400
16	e300	585	e151	268	e117	133	e70	47	e292	735	e660	1440
17	e285	541	e147	262	e109	125	e92	83	e272	552	e647	1400
18	e255	467	e149	267	e106	122	e97	93	e260	449	e635	1360
19	e240	428	e148	262	e102	124	e102	132	e260	434	e619	1340
20	e260	463	e144	250	e102	119	e89	94	e255	420	e600	1320
21	e295	534	e152	281	e107	130	e87	89	e258	414	e578	1220
22	e275	491	e154	260	e108	150	e92	102	e258	422	e569	1190
23	e285	509	e158	286	e111	107	e90	112	e258	423	e660	1390
24	e260	464	e150	264	e111	178	e92	114	e242	359	e512	944
25	e263	473	e148	259	e98	132	e94	107	e253	371	e496	753
26	e250	451	e145	249	e97	128	e90	102	e255	375	e498	785
27	e235	423	e138	235	e95	129	e92	102	e257	378	e451	566
28	e207	348	e133	224	e95	129	e97	109	e250	363	e456	552
29	e170	285	e137	229	e96	127	e140	240	---	---	e458	538
30	e152	255	e139	235	e98	130	e144	295	---	---	e449	530
31	e152	264	---	---	e102	133	e145	298	---	---	e459	590
TOTAL	---	27400	---	8203	---	5094	---	3858	---	10030	---	74807

e Estimated.

09306500 WHITE RIVER NEAR WATSON, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	e480	731	e4840	26200	650	2140	325	518	2700	4270	240	236
2	e500	902	e5070	31200	710	2380	340	622	2300	3470	275	290
3	e540	1090	e5370	35800	610	2240	270	491	540	952	235	286
4	e600	1120	e5100	30200	750	2650	110	178	390	589	230	258
5	e620	1080	e4400	22900	470	1650	75	115	380	479	240	301
6	e940	2200	e3800	18000	470	1850	e99	148	300	404	130	148
7	e960	2290	e3120	14600	460	1630	e98	147	3870	7700	e130	144
8	e1060	2660	e2520	12700	495	1780	e96	145	31100	121000	e130	140
9	e1160	2970	e2500	13300	1050	4280	e87	129	19400	42100	e130	135
10	e1230	3200	e2540	14000	1300	5930	e85	117	e2430	4120	140	150
11	e1160	2870	e2520	14400	1440	7230	e88	120	e1570	2220	130	137
12	e1230	3030	e2490	14300	950	4360	e88	122	e990	1250	120	128
13	e1210	2970	e2570	14600	590	2420	e105	149	e570	700	92	93
14	e1180	2720	e2400	13600	640	2490	e120	197	e560	812	89	87
15	e1160	2420	2630	15200	610	2310	e91	140	e640	1010	110	108
16	e1240	2650	2630	16100	475	1890	69	100	e500	836	99	88
17	e1460	3560	2490	15900	400	1330	74	107	e330	565	118	129
18	e1590	4250	2450	16500	300	923	102	158	330	494	102	116
19	e1650	4770	2000	13800	230	646	65	91	250	347	84	94
20	e1900	6360	1830	11000	190	491	52	71	155	192	80	87
21	e1890	6480	1960	12600	e150	352	171	218	130	148	56	61
22	e1870	5910	1430	9030	e140	308	310	377	100	106	68	77
23	e1820	5550	1470	8260	e130	270	200	238	230	258	81	87
24	e1860	5880	1420	6980	e120	236	175	215	5800	8750	63	65
25	e2080	7470	1260	5890	e115	208	56	56	25900	61200	56	57
26	e2520	10300	950	4280	e91	150	80	88	12700	25500	54	52
27	e3280	14300	990	4300	e95	143	155	193	3220	6440	53	50
28	e3820	16700	860	3580	e86	121	2850	3920	975	1540	75	72
29	e4080	20800	680	2520	e140	191	20000	43700	550	741	67	65
30	e4500	25300	820	2920	6100	9850	19000	31000	370	490	85	83
31	---	---	680	2480	---	---	5800	9350	385	457	---	---
TOTAL	---	173253	---	427740	---	62049	---	93218	---	299131	---	3792

TOTAL LOAD FOR YEAR: 1188630 TONS.

e Estimated.

09306800 BITTER CREEK NEAR BONANZA, UT

LOCATION.--Lat 39°45'12", long 109°21'15", in SE¼SW¼SW¼ sec.21, T.12 S., R.23 E., Uintah County, Hydrologic Unit 14050007, on left bank 150 ft upstream from road culvert, 3 mi downstream from Sweetwater Canyon Creek, 17 mi upstream from mouth, and 18 mi southwest of Bonanza.

DRAINAGE AREA.--324 mi².

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,570 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Small reservoirs on tributaries above station.

AVERAGE DISCHARGE.--17 years, 5.60 ft³/s, 4,060 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft³/s Sept. 5, 1982, gage height, 13.82 ft from floodmarks, datum then in use; rating curve extended above 8 ft³/s on basis of slope-area measurement of peak flow; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 (revised) ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 6	2200	119	8.00	Aug. 24	2215	124	8.08
Apr. 6	0020	*161	*8.56				

Minimum daily, 6.7 ft³/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	16	e9.2	14	19	25	32	28	20	15	12
2	15	17	16	e8.8	14	17	32	35	26	19	14	12
3	15	16	16	e9.6	15	19	33	33	26	16	13	12
4	16	15	14	e10	15	26	40	33	25	15	12	12
5	15	15	13	e10	15	41	46	33	24	15	12	12
6	14	15	14	e10	14	52	68	34	24	14	12	12
7	14	16	15	e10	14	53	46	34	24	14	16	12
8	14	15	13	e9.0	13	50	39	34	24	14	17	12
9	14	15	13	e8.3	14	43	38	35	26	14	14	13
10	14	13	e13	e8.4	14	34	37	35	27	14	13	12
11	15	14	e11	e8.9	15	31	38	36	27	14	13	12
12	15	13	e10	e8.0	16	27	36	37	26	16	13	12
13	15	15	e9.4	e6.8	17	30	32	37	24	15	13	12
14	14	15	9.5	e6.9	26	33	30	36	22	14	15	12
15	14	15	e9.6	e7.0	19	28	33	35	22	14	13	13
16	14	14	e10	e6.8	16	25	37	34	21	13	12	13
17	14	14	e11	e6.8	16	21	36	33	20	15	12	13
18	14	14	e11	e6.8	14	22	39	33	19	17	11	12
19	14	14	e12	e6.7	15	25	36	34	18	14	11	12
20	14	14	e14	e6.8	14	20	33	36	18	13	11	12
21	14	14	e12	e6.8	19	21	32	36	18	14	12	11
22	15	14	e11	e7.0	18	19	30	35	17	14	12	11
23	16	14	e11	e7.0	15	18	28	34	16	13	12	11
24	15	14	e12	e8.0	14	19	27	34	16	12	23	11
25	14	14	e10	e10	16	18	27	34	15	12	24	11
26	14	12	e9.4	e13	14	18	27	33	15	14	15	11
27	14	17	9.2	e12	15	19	27	33	15	16	14	12
28	14	16	9.6	e12	19	20	27	32	15	15	13	12
29	14	14	e9.4	e12	---	16	29	33	17	17	13	12
30	15	14	e9.0	e12	---	17	29	33	19	16	12	12
31	17	---	e8.8	13	---	19	---	30	---	16	12	---
TOTAL	450	440	361.9	277.6	440	820	1039	1056	634	459	424	358
MEAN	14.5	14.7	11.7	8.95	15.7	26.5	34.6	34.1	21.1	14.8	13.7	11.9
MAX	17	18	16	13	26	53	68	37	28	20	24	13
MIN	14	12	8.8	6.7	13	16	25	30	15	12	11	11
AC-FT	893	873	718	551	873	1630	2060	2090	1260	910	841	710

CAL YR 1986 TOTAL 5746.3 MEAN 15.7 MAX 47 MIN 4.6 AC-FT 11400
WTR YR 1987 TOTAL 6759.5 MEAN 18.5 MAX 68 MIN 6.7 AC-FT 13410

e Estimated

09308500 MINNIE MAUD CREEK NEAR MYTON, UT

LOCATION.--Lat 39°47'55", long 110°33'55", in SE¼SE¼SW¼ sec.3, T.12 S., R.12 E., Carbon County, Hydrologic Unit 14060005, on left bank 30.4 mi southwest of Myton.

DRAINAGE AREA.--32.0 mi^2.

PERIOD OF RECORD.--August 1950 to September 1955, September 1957 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,190 ft by barometer.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station.

AVERAGE DISCHARGE.--35 years, 5.99 ft^3/s, 4,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, occurred Oct. 13, 1975, gage height, 11.67 ft; maximum known discharge, 1,370 ft^3/s Aug. 25, 1961, gage height, 9.40 ft, from rating curve extended above 110 ft^3/s on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 1	1900	*118	*7.31	No other peak greater than base discharge.			

Minimum daily discharge, 1.0 ft^3/s, several days during January, February and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	e5.0	e3.5	e1.2	e1.3	e1.5	32	20	7.2	5.5	2.2	1.5
2	7.9	e4.9	e3.6	e1.3	e1.5	e1.6	19	20	7.1	5.3	2.2	1.5
3	5.9	e4.6	e3.7	e1.1	e1.4	e1.6	20	18	7.1	5.1	2.1	1.5
4	5.5	e4.6	e3.5	e1.2	e1.4	e1.7	20	17	6.9	4.8	2.1	1.5
5	5.4	e5.0	e3.7	e1.1	e1.2	e1.8	17	15	6.8	4.8	2.1	1.5
6	5.3	e4.5	e3.3	e1.1	e1.6	e1.6	e19	14	6.7	4.8	2.1	1.5
7	5.3	e4.0	e2.3	e1.1	e1.8	e1.5	e21	14	6.9	4.7	2.4	1.4
8	5.2	e4.2	e2.4	e1.1	e1.7	e1.4	e40	14	7.3	4.3	2.2	1.4
9	5.2	e3.8	e1.7	e1.0	e2.0	e1.4	e28	13	7.0	4.2	2.1	1.4
10	5.2	e4.1	e1.3	e1.0	e1.9	e1.5	e27	13	6.7	4.1	2.0	1.4
11	5.3	e3.8	e1.4	e1.0	e1.9	e1.3	26	12	6.6	7.2	2.0	1.4
12	e5.6	e4.0	e1.5	e1.1	e2.0	e1.4	e20	12	6.4	e4.0	1.9	1.4
13	e5.4	e4.4	e1.5	e1.2	e1.7	e1.4	e18	12	6.2	e3.5	2.0	1.4
14	e5.0	e4.5	e1.5	e1.3	e1.7	e1.3	e27	11	6.0	e3.0	2.1	1.5
15	e5.2	e4.3	e1.6	e1.1	e1.6	e1.1	32	10	6.2	e2.5	2.1	1.5
16	e5.4	e4.3	e1.4	e1.1	e1.6	e1.0	e35	10	6.3	e2.5	2.0	1.4
17	e5.4	e4.8	e1.5	e1.0	e1.3	e1.0	41	10	5.9	2.9	1.8	1.4
18	e6.3	e4.5	e1.5	e1.0	e1.4	e1.3	36	10	5.4	3.7	1.8	1.4
19	e6.0	e4.0	e1.3	e1.1	e1.2	e1.5	27	9.7	5.5	3.1	1.8	1.3
20	e5.4	e3.8	e1.4	e1.0	e1.0	e1.3	e26	10	5.3	3.1	1.8	1.3
21	e5.2	e3.8	e1.2	e1.0	e1.2	e1.4	e25	10	5.2	3.3	1.8	1.3
22	e5.0	e3.4	e1.2	e1.1	e1.3	e1.4	24	9.6	5.5	3.0	1.8	1.3
23	e5.0	e3.7	e1.3	e1.2	e1.4	e1.3	24	9.2	5.4	2.9	1.9	1.3
24	e4.9	e4.5	e1.2	e1.2	e1.3	e1.4	22	9.0	5.3	2.9	3.0	1.3
25	e4.7	e4.3	e1.2	e1.2	e1.3	e1.6	22	9.1	5.1	2.9	2.2	1.3
26	e4.7	e4.3	e1.1	e1.3	e1.2	e1.3	21	10	5.0	3.0	1.7	1.3
27	e4.7	e4.4	e1.2	e1.4	e1.3	e1.2	20	9.4	4.9	3.0	1.7	1.3
28	e4.5	e4.5	e1.4	e1.3	e1.4	e1.3	20	8.8	5.0	3.3	1.7	1.3
29	e4.8	e4.5	e1.3	e1.3	---	e2.0	19	8.3	5.9	3.8	1.7	1.3
30	e4.8	e4.3	e1.4	e1.2	---	9.3	20	7.8	6.2	2.5	1.5	1.5
31	e4.8	---	e1.3	e1.2	---	11	---	7.5	---	2.3	1.5	---
TOTAL	163.6	128.8	57.4	35.5	41.6	61.4	748	363.4	183.0	116.0	61.3	41.8
MEAN	5.28	4.29	1.85	1.15	1.49	1.98	24.9	11.7	6.10	3.74	1.98	1.39
MAX	7.9	5.0	3.7	1.4	2.0	11	41	20	7.3	7.2	3.0	1.5
MIN	4.5	3.4	1.1	1.0	1.0	1.0	17	7.5	4.9	2.3	1.5	1.3
AC-FT	325	255	114	70	83	122	1480	721	363	230	122	83

CAL YR 1986	TOTAL	4297.3	MEAN	11.8	MAX	56	MIN	.80	AC-FT	8520
WTR YR 1987	TOTAL	2001.8	MEAN	5.48	MAX	41	MIN	1.0	AC-FT	3970

e Estimated

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT
(Transmountain diversion)

LOCATION.--Lat 39°40'03", long 111°18'41", in NW¼NW¼NE¼ sec.25, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 14060007, on right bank 1,000 ft upstream from tunnel portal, 7.3 mi east-northeast of Fairview.

PERIOD OF RECORD.--July 1967 to current year. Seasonal records only. (July to September 1967, gage height only.)

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 8,660 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Fairview Tunnel diverts from San Rafael River and Price River drainages in the Colorado River Basin to San Pitch River in the Great Basin. Due to the location of the gage, reported flow may not be actual flow through tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52 ft³/s June 6, 1984, gage height, 1.55 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22 ft³/s July 21, gage height, 0.63 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	.00	e2.6	13	13	8.6
2	---	---	---	---	---	---	.00	.00	e2.7	14	14	8.4
3	---	---	---	---	---	---	.00	.00	e2.8	17	15	6.1
4	---	---	---	---	---	---	.00	.00	e2.7	19	15	6.1
5	---	---	---	---	---	---	.00	.00	e2.6	18	14	6.1
6	---	---	---	---	---	---	.00	.00	e2.5	18	14	6.1
7	---	---	---	---	---	---	.00	.00	e2.7	18	14	5.3
8	---	---	---	---	---	---	.00	.00	e2.6	16	14	4.9
9	---	---	---	---	---	---	.00	.00	e2.9	17	14	4.0
10	---	---	---	---	---	---	.00	.00	e3.0	16	14	e1.5
11	---	---	---	---	---	---	.00	.00	e2.9	16	13	e.90
12	---	---	---	---	---	---	.00	.00	e3.3	17	13	e.50
13	---	---	---	---	---	---	.00	.00	e4.0	15	12	e.30
14	---	---	---	---	---	---	.00	.00	e4.7	16	12	.00
15	---	---	---	---	---	---	.00	.00	e5.0	15	12	.00
16	---	---	---	---	---	---	.00	.00	e6.0	16	12	.00
17	---	---	---	---	---	---	.00	.00	e7.0	17	11	.00
18	---	---	---	---	---	---	.00	.00	e8.0	16	11	.00
19	---	---	---	---	---	---	.00	.00	e9.0	16	11	.00
20	---	---	---	---	---	---	.00	.00	9.7	17	11	.00
21	---	---	---	---	---	---	.00	.00	10	18	11	.00
22	---	---	---	---	---	---	.00	.00	10	19	11	.00
23	---	---	---	---	---	---	.00	.00	13	18	11	.00
24	---	---	---	---	---	---	.00	.00	13	18	11	.00
25	---	---	---	---	---	---	.00	.00	13	17	9.8	.00
26	---	---	---	---	---	---	.00	.00	13	17	9.2	.00
27	---	---	---	---	---	---	.00	.00	13	15	9.2	.00
28	---	---	---	---	---	---	.00	.00	13	13	9.2	.00
29	---	---	---	---	---	---	.00	.00	13	14	8.6	.00
30	---	---	---	---	---	---	.00	.00	14	13	8.6	.00
31	---	---	---	---	---	---	---	.00	---	13	8.6	---
TOTAL	---	---	---	---	---	---	.00	.00	211.7	502	366.2	58.80
MEAN	---	---	---	---	---	---	.00	.00	7.06	16.2	11.8	1.96
MAX	---	---	---	---	---	---	.00	.00	14	19	15	8.6
MIN	---	---	---	---	---	---	.00	.00	2.5	13	8.6	.00
AC-FT	---	---	---	---	---	---	.0	.0	420	996	726	117

e Estimated

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT

LOCATION.--Lat 39°42'57", long 111°17'58", in NW¼SE¼SW¼ sec.6, T.13 S., R.6 E., Sanpete County, Hydrologic Unit 14060007, on left bank 300 ft downstream from old Mammoth Dam, 5.5 mi upstream from mouth, and 7 mi west of Scofield.

DRAINAGE AREA.--16.8 mi^2.

PERIOD OF RECORD.--October 1930 to September 1931, May 1940 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,400 ft from topographic map. October 1930 to September 1931, at different datum, May 1940 to September 1954, at datum 0.50 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Transmountain diversion above station for irrigation in Sevier River basin, part of which is water diverted into Gooseberry Creek from Boulger Creek. A small reservoir on Gooseberry Creek 5 mi above station, capacity about 1,900 acre-ft is used to regulate these diversions. Flow also affected by small reservoir 1 mi above station.

AVERAGE DISCHARGE.--48 years, 19.6 ft^3/s, 14,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 415 ft^3/s May 22, 1984; maximum gage height, 2.98 ft June 6, 1957, datum then in use; no flow Nov. 11, 1984, Sept. 23-26, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98 ft^3/s Apr. 28, gage height, 1.68 ft; minimum daily discharge, 2.0 ft^3/s Feb. 5, 6, Mar. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	6.4	e5.9	2.2	e2.3	e2.0	e4.1	85	22	13	4.9	3.9
2	8.9	6.4	e5.7	e2.3	2.2	e2.0	e4.4	89	21	11	4.5	4.0
3	9.1	6.4	5.9	e2.5	2.2	e2.3	4.9	70	20	10	4.5	4.2
4	8.4	6.1	5.7	2.6	e2.1	e2.4	5.4	65	19	9.8	4.4	4.9
5	8.0	6.1	5.8	e2.6	e2.0	e2.4	5.0	66	19	9.2	4.4	3.9
6	8.5	6.2	6.2	2.8	e2.0	2.7	5.5	69	18	8.7	4.5	3.6
7	8.6	6.5	6.2	e2.7	e2.1	e2.5	6.4	70	19	8.6	5.0	3.9
8	8.6	e7.9	6.1	e2.7	2.3	2.7	7.5	68	20	8.3	4.7	3.7
9	8.3	e7.9	e6.0	e2.7	e2.3	3.0	8.4	61	21	8.1	4.4	3.5
10	7.9	e7.5	e6.0	e2.7	2.2	e2.7	9.3	59	18	7.6	4.3	3.3
11	7.7	e7.4	e6.0	e2.7	2.2	2.9	10	53	17	8.3	4.0	3.2
12	7.4	6.1	e5.8	e2.6	2.2	e2.7	11	52	16	9.5	3.9	3.2
13	7.0	e6.0	e5.7	e2.5	2.4	3.0	e9.0	61	16	8.1	4.0	3.4
14	6.8	6.2	4.8	e2.4	e2.3	e2.8	10	54	15	7.4	4.0	3.3
15	6.8	6.2	4.5	e2.6	e2.3	3.0	15	52	15	6.7	3.9	3.4
16	6.5	6.2	4.5	e2.6	2.6	3.1	22	49	14	6.5	3.9	3.4
17	6.6	6.2	e4.5	e2.5	2.5	3.2	30	48	14	6.6	3.7	3.4
18	7.3	6.2	e4.1	e2.5	e2.5	e3.0	36	58	14	6.2	3.5	3.2
19	7.3	9.8	3.8	e2.4	2.5	e3.0	34	54	13	5.7	3.5	3.1
20	7.6	9.3	e3.8	e2.3	e2.3	e3.0	24	48	13	5.9	3.5	3.1
21	7.0	8.1	e3.5	e2.3	e2.4	e3.0	23	45	13	8.4	3.7	3.0
22	7.0	7.3	e3.0	e2.3	e2.3	3.4	31	39	12	8.5	3.8	3.2
23	6.8	6.6	e3.0	2.3	e2.3	3.3	44	37	12	6.2	4.1	3.1
24	6.7	6.2	e2.7	2.3	e2.2	e3.0	54	34	11	5.4	5.1	3.1
25	6.4	6.3	e2.6	2.3	e2.3	e3.3	64	30	11	5.0	5.2	3.2
26	6.3	e6.3	e2.6	2.2	e2.3	e3.3	72	30	11	5.1	4.8	3.2
27	6.3	5.7	2.6	e2.2	e2.2	e3.5	74	32	11	5.4	4.4	3.1
28	6.1	5.8	e2.6	e2.2	e2.1	3.9	81	31	9.2	5.6	4.2	3.1
29	6.0	5.6	e2.5	e2.2	---	e3.6	87	28	11	6.3	4.0	3.0
30	6.2	e6.0	e2.5	2.3	---	e3.6	86	26	16	5.8	3.8	3.1
31	6.6	---	e2.2	2.3	---	e3.9	---	24	---	5.3	3.9	---
TOTAL	226.1	200.9	136.8	75.8	63.6	92.2	877.9	1587	461.2	232.2	130.5	102.7
MEAN	7.29	6.70	4.41	2.45	2.27	2.97	29.3	51.2	15.4	7.49	4.21	3.42
MAX	9.1	9.8	6.2	2.8	2.6	3.9	87	89	22	13	5.2	4.9
MIN	6.0	5.6	2.2	2.2	2.0	2.0	4.1	24	9.2	5.0	3.5	3.0
AC-FT	448	398	271	150	126	183	1740	3150	915	461	259	204

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CAL YR 1986   TOTAL  12368.2   MEAN  33.9   MAX  313   MIN  2.2   AC-FT  24530
WTR YR 1987   TOTAL   4186.9   MEAN  11.5   MAX   89   MIN  2.0   AC-FT   8300
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e Estimated

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT

LOCATION.--Lat 39°46'28", long 111°11'25", in NW¼NE¼SW¼ sec.18, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 0.8 mi upstream from bridge, 1.2 mi downstream from French Creek, and 4.5 mi north of Scofield.

DRAINAGE AREA.--60.1 mi².

PERIOD OF RECORD.--June to October 1931, April to September 1932, October 1938 to current year. Published as Price River above Scofield Reservoir, near Scofield, October 1938 to September 1967.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,670 ft from topographic map. June 1931 to September 1932, and October 1938 to July 27, 1967, at various sites about 0.5 mi downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Small transmountain diversions in headwaters for irrigation in Sevier Lake basin.

AVERAGE DISCHARGE.--49 years (1938-87), 50.6 ft³/s, 36,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s May 21, 1984, gage height, 6.20 ft; minimum recorded, 0.6 ft³/s Oct. 31, 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 2	0400	*188	*1.97				

Minimum discharge, 6.9 ft³/s, several days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	17	e13	e9.6	e9.0	e7.6	e14	107	47	21	12	7.5
2	24	17	e13	e9.7	e8.6	e7.8	e16	176	45	19	11	7.5
3	24	17	e14	e9.8	e8.8	e8.4	e19	150	43	17	10	8.0
4	22	16	e14	e10	e8.0	e8.4	e23	140	41	16	9.9	9.8
5	20	16	e14	e10	e8.4	e8.4	25	141	39	15	9.3	9.5
6	20	16	e14	e11	e8.0	e9.0	26	149	40	14	10	8.8
7	20	e16	e14	e11	e8.0	e9.0	29	155	40	14	12	8.5
8	20	e17	e14	e11	e8.8	e9.0	39	149	47	14	11	8.4
9	20	e17	e14	e11	e9.0	e9.8	40	137	44	14	9.5	7.9
10	20	e16	e14	e11	e8.6	e9.8	39	129	39	13	9.4	7.7
11	20	e16	e14	e11	e8.8	e9.6	41	123	36	16	9.5	7.4
12	19	e15	e14	e10	e8.5	e9.6	39	117	33	24	9.3	7.4
13	16	e16	e13	e9.8	e9.0	e10	34	133	32	17	8.6	7.7
14	18	e18	e13	e9.2	e8.5	e10	38	119	31	14	8.8	7.7
15	17	e18	e13	e9.8	e8.6	e10	53	116	30	13	9.1	7.8
16	17	e18	e13	e10	e9.0	e11	68	109	29	13	8.9	7.8
17	18	e18	e13	e10	e8.6	e11	81	105	27	13	8.3	7.7
18	20	e20	e12	e10	e8.4	e11	89	115	26	12	7.8	7.6
19	19	e20	e12	e9.4	e8.0	e11	82	115	24	11	7.4	7.3
20	20	e19	e12	e9.4	e8.0	e11	61	105	24	11	7.4	7.2
21	19	e19	e12	e9.0	e8.2	e11	59	99	23	17	7.9	7.1
22	18	e16	e12	e9.0	e8.2	e10	74	90	22	20	8.2	7.2
23	18	e14	e12	e9.0	e8.0	e10	96	85	21	14	9.2	7.2
24	18	e14	e11	e9.0	e8.0	e11	114	80	20	12	12	7.5
25	17	e15	e11	e9.0	e8.2	e12	126	75	19	12	12	7.2
26	17	e14	e11	e8.6	e8.2	e12	136	73	18	13	11	7.7
27	17	e13	e11	e8.4	e8.0	e12	141	71	18	16	9.4	7.7
28	16	e13	e11	e8.4	e7.8	e12	150	69	18	19	8.8	7.3
29	16	e13	e11	e8.4	---	e13	165	64	19	21	8.5	7.2
30	16	e14	e10	e9.0	---	e13	167	57	26	16	7.5	7.4
31	17	---	e9.6	e9.0	---	e14	---	52	---	14	7.3	---
TOTAL	585	488	388.6	299.5	234.9	321.2	2085	3465	921	475	291.0	232.7
MEAN	18.9	16.3	12.5	9.66	8.39	10.4	69.5	112	30.7	15.3	9.39	7.76
MAX	24	20	14	11	9.0	14	167	176	47	24	12	9.8
MIN	16	13	9.6	8.4	7.8	7.6	14	52	18	11	7.3	7.1
AC-FT	1160	968	771	594	466	637	4140	6870	1830	942	577	462

CAL YR 1986 TOTAL 1431.6 MEAN 15.9 MAX 24 MIN 9.6 AC-FT 2900
WTR YR 1987 TOTAL 9786.8 MEAN 26.8 MAX 176 MIN 7.1 AC-FT 19410

e Estimated

09311000 SCOFIELD RESERVOIR NEAR SCOFIELD, UT

LOCATION.--Lat 39°47'15", long 111°07'30", in NW¼SE¼ sec.10, T.12 S., R.7 E., Carbon County, Hydrologic Unit 14060007, on right bank 200 ft upstream from face of dam on Price River and 4.7 mi northeast of Scofield.

DRAINAGE AREA.--154 mi^2.

PERIOD OF RECORD.--October 1941, April 1942 to current year. Fragmentary records 1926-41 in files of Office of State Engineer.

REVISED RECORDS.--WSP 1089: 1946. WDR UT-77-1: Drainage area.

GAGE.--Staff gage read twice daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1945, at site 800 ft upstream 200 ft from old dam at datum 4.51 ft higher.

REMARKS.--Reservoir is formed by earth and rockfill; rock-faced dam 800 ft downstream from old dam in use prior to Nov. 8, 1945. Storage began in May 1926. Usable capacity of reservoir formed by new dam is 65,780 acre-ft between elevations 7,586.0 ft (bottom of outlet works) and 7,617.5 ft (crest of spillway). Dead storage, 8,000 acre-ft below elevation 7,586.0 ft. Figures given herein represent usable contents. Water used for irrigation in vicinity of Price.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 77,280 acre-ft June 12, 13, 1983; elevation, 7,621.85 ft; minimum observed, 280 acre-ft Oct. 3, 1945; elevation, 7,586.25 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 61,610 acre-ft May 30-June 4, elevation, 7,616.0 ft; minimum observed, 35,930 acre-ft Sept. 30, elevation, 7,606.0 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

7,606	35,930	7,610	45,720
7,607	38,310	7,615	58,870
7,608	40,740	7,616	61,610

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44210	45720	47250	48790	50870	52710	55360	60510	61610	55360	47510	40740
2	44210	45980	47250	48790	50870	52970	55360	60780	61610	54830	47510	40490
3	44210	45980	47250	49050	50870	52970	55360	60780	61610	54560	47510	40490
4	44210	45980	47250	49050	50870	52970	55630	60780	61610	54300	47250	40250
5	44210	45980	47250	49310	51130	52970	55630	60780	61330	54030	47250	40250
6	44460	46230	47250	49310	51130	53230	55900	60780	61330	53500	47000	40000
7	44460	46230	47510	49310	51130	53230	56160	60780	61330	53230	47000	39760
8	44460	46230	47510	49310	51130	53230	56430	60780	61330	52710	46740	39520
9	44460	46230	47760	49570	51390	53230	56700	60780	61060	52440	46480	39520
10	44710	46230	47760	49570	51390	53500	56700	60510	61060	51920	46480	39280
11	44710	46230	47760	49570	51390	53500	56970	60510	60780	51650	46230	39030
12	44710	46230	47760	49830	51650	53500	56970	60510	60780	51390	45980	38790
13	44710	46230	47760	49830	51650	53760	57240	60510	60780	51130	45720	38790
14	44710	46230	48020	49830	51650	53760	57510	60510	60510	50610	45470	38550
15	44710	46480	48020	49830	51650	53760	57510	60230	60230	50350	45220	38310
16	44960	46480	48020	49830	51920	54030	57780	60230	59960	50090	44960	38310
17	44960	46480	48020	50090	51920	54030	58050	60230	59960	49830	44460	38070
18	44960	46480	48020	50090	51920	54300	58320	60230	59690	49570	44210	37830
19	44960	46480	48280	50090	51920	54300	58600	60230	59410	49310	43960	37830
20	45220	46480	48280	50090	52180	54560	58870	60230	59140	49310	43710	37590
21	45220	46740	48280	50350	52180	54560	58870	60230	58870	49050	43210	37590
22	45220	46740	48280	50350	52180	54560	58870	60510	58600	48790	42960	37350
23	45470	46740	48280	50350	52440	54560	59140	60510	58320	48540	42710	37120
24	45470	46740	48540	50350	52440	54830	59410	60780	57780	48280	42460	36890
25	45470	46740	48540	50350	52440	54830	59690	60780	57510	48020	42220	36890
26	45470	47000	48540	50610	52710	54830	59690	61060	57240	47760	41970	36640
27	45470	47000	48540	50610	52710	54830	59960	61060	56700	47760	41720	36640
28	44210	47000	48540	50610	52710	55090	60230	61330	56430	47760	41480	36400
29	45470	47000	48790	50610	---	55090	60230	61330	56160	47760	41230	36170
30	45720	47000	48790	50870	---	55090	60510	61610	55630	47760	40980	35930
31	45720	---	48790	50870	---	55090	---	e61610	---	47510	40740	---
MAX	45720	47000	48790	50870	52710	55090	60510	61610	61610	55360	47510	40740
MIN	44210	45720	47250	48790	50870	52710	55360	60230	55630	47510	40740	35930
(#)	7610.0	7610.5	7611.2	7612.0	7612.7	7613.6	7615.6	---	7613.8	7610.7	7608.0	7606.0
(*)	+1510	+1280	+1790	+2080	+1840	+2380	+5420	+1100	-5980	-8120	-6770	-4810

CAL YR 1986 . . . . . (*) +3830
WTR YR 1987 . . . . . (*) -8280

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.
(e) No gage reading, contents interpolated.

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°52'33", long 111°02'12", in NE¼SE¼SW¼ sec.9, T.11 S., R.8 E., Utah County, Hydrologic Unit 14060007, 50 ft downstream from bridge on U.S. Highways 6-50, 1.5 mi downstream from Tabbyune Creek, 2.5 mi northwest of the Colton railroad siding, and 4.5 mi southeast of Soldier Summit.

DRAINAGE AREA.--75.6 mi^2.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,230 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--20 years, 32.8 ft^3/s, 23,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 962 ft^3/s May 27, 1983, gage height, 5.82 ft; no flow many days August and September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 18	0100	*76	*1.53				

Minimum discharge, 2.7 ft^3/s Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	8.6	e6.1	e6.1	e5.4	e7.3	27	57	e22	10	5.9	4.5
2	13	8.6	e6.2	e6.3	e5.6	e10	34	58	e21	9.7	5.3	4.5
3	14	8.6	e6.4	e6.0	e5.6	e10	35	56	e19	8.9	4.9	5.0
4	13	7.8	e6.3	e6.2	e5.5	e13	35	54	e18	8.6	4.6	5.6
5	11	7.5	e6.2	e6.2	e5.4	e16	30	53	e18	8.1	4.2	4.6
6	9.5	8.2	e5.9	e6.2	e5.9	e15	36	53	e17	7.8	5.8	3.5
7	9.5	7.9	e5.6	e6.1	e5.8	e15	45	53	e20	7.7	5.9	3.5
8	9.7	6.5	e5.7	e6.0	e5.8	e13	46	53	e25	7.5	5.2	3.5
9	9.0	e6.4	e5.4	e5.7	e5.6	e13	43	52	e20	7.3	4.5	3.3
10	8.4	e6.7	e5.0	e5.7	e5.6	e15	41	49	e18	7.4	4.2	3.1
11	8.5	e6.6	e5.1	e5.7	e5.5	e13	42	48	e17	9.7	4.3	3.1
12	8.2	e7.0	e5.6	e5.8	e5.6	e14	41	46	e17	9.9	4.6	3.1
13	7.6	e7.0	e5.6	e5.9	e5.3	e14	38	47	e16	7.4	4.1	3.3
14	7.6	e7.5	e5.6	e5.7	e5.2	e14	39	e48	e16	6.6	4.5	3.5
15	7.6	e8.1	e5.8	e5.5	e5.0	e11	44	e45	e16	6.3	4.8	3.6
16	7.6	e8.0	e5.7	e5.5	e5.1	e10	50	e43	e16	6.2	4.7	3.4
17	7.7	8.0	e6.0	e5.3	e5.0	e9.5	54	e45	e16	7.2	3.9	3.4
18	10	7.4	e6.0	e5.3	e5.3	e9.5	63	e42	e16	7.0	3.4	3.4
19	10	e7.3	e5.9	e5.4	e5.0	e9.6	59	e41	15	6.0	3.3	3.3
20	8.8	7.6	e6.0	e5.0	e4.9	e9.1	54	e43	14	6.1	3.3	3.4
21	8.9	7.4	e5.9	e4.7	e5.0	e9.2	53	e42	14	9.2	3.4	3.4
22	8.7	e7.2	e5.9	e5.0	e5.6	9.2	52	e40	13	10	4.0	3.4
23	8.5	e7.0	e6.0	e5.3	e5.7	11	52	e41	13	6.4	4.1	3.5
24	8.2	e6.7	e5.8	e5.3	e5.4	12	53	e37	12	5.6	11	3.5
25	8.1	e6.9	e5.8	e5.2	e5.4	11	53	e38	12	5.4	7.3	3.5
26	8.1	e6.7	e5.7	e5.4	e5.3	11	53	e39	11	6.1	5.1	2.7
27	8.1	e6.8	e5.7	e5.6	e5.7	11	53	e39	11	6.0	4.3	3.6
28	8.1	e6.9	e6.0	e5.5	e6.3	11	54	e38	10	6.3	3.8	3.5
29	8.1	e6.9	e5.8	e5.4	---	10	55	e32	11	10	3.6	3.6
30	8.3	e6.7	e6.3	e5.3	---	13	57	e27	11	7.8	3.7	3.6
31	9.1	---	e6.2	e5.3	---	15	---	e24	---	6.5	4.5	---
TOTAL	281.9	220.7	181.2	173.6	152.5	364.4	1391	1383	475	234.7	146.2	109.9
MEAN	9.09	7.36	5.85	5.60	5.45	11.8	46.4	44.6	15.8	7.57	4.72	3.66
MAX	14	8.8	6.4	6.3	6.3	16	63	58	25	10	11	5.6
MIN	7.6	6.4	5.0	4.7	4.9	7.3	27	24	10	5.4	3.3	3.1
AC-FT	559	438	359	344	302	723	2760	2740	942	466	290	218

CAL YR 1986	TOTAL	18745.2	MEAN	51.4	MAX	384	MIN	4.8	AC-FT	37180
WTR YR 1987	TOTAL	5114.1	MEAN	14.0	MAX	63	MIN	3.1	AC-FT	10140

e Estimated

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT

LOCATION.--Lat 39°49'50", long 110°58'07", in NW¼SW¼SW¼ sec.30, T.11 S., R.9 E., Utah County, Hydrologic Unit 14060007, on left bank 0.5 mi upstream from mouth, 2.5 mi southeast of Colton, and 9.1 mi southeast of Soldier Summit.

DRAINAGE AREA.--26.1 mi^2.

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,200 ft from topographic map. Prior to July 15, 1983 at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--27 years, 4.72 ft^3/s, 3,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 204 ft^3/s May 27, 1983, maximum gage height, 2.81 ft May 16, 1984, datum then in use; no flow for many days some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 23 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	2050	*25	*1.56	No other peak greater than base discharge.			

Minimum discharge, 0.56 ft^3/s Sept. 1, 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.0	e.77	e.81	e.87	e1.1	e10	e17	e8.3	5.2	2.2	.66
2	4.3	2.9	e.79	e.89	e.89	e1.2	e13	e19	e8.1	3.5	2.6	.63
3	4.5	2.8	e.81	e.87	e.89	e1.2	e14	e16	6.5	3.2	2.0	.65
4	4.0	3.0	e.78	e.89	e.87	e2.3	e14	e14	6.0	2.9	1.8	.72
5	3.5	2.7	e.79	e.88	e.85	e5.0	e11	14	6.0	2.6	1.4	.89
6	3.1	2.8	e.77	e.88	e.88	e2.7	e12	13	5.8	2.5	1.6	1.1
7	2.9	e2.0	e.68	e.85	e.87	e2.7	e14	13	6.5	2.2	4.6	.97
8	2.8	e1.5	e.71	e.85	e.87	e2.5	e15	13	15	2.0	2.7	.98
9	2.6	e.90	e.63	e.83	e.85	e2.5	e14	13	12	2.1	1.9	.95
10	2.6	e1.0	e.60	e.82	e.85	e2.7	e13	12	10	2.1	1.7	.86
11	2.7	e.96	e.61	e.82	e.84	e2.0	e14	11	10	2.3	1.5	.77
12	2.7	e1.0	e.65	e.83	e.85	e2.1	e14	10	9.5	3.1	1.5	.70
13	2.5	e1.0	e.64	e.85	e.83	e2.1	e13	12	9.2	3.2	1.3	.70
14	2.4	e1.1	e.64	e.87	e.81	e2.1	e13	9.8	8.8	2.0	1.3	.73
15	2.4	e1.2	e.70	e.82	e.80	e1.7	e14	9.2	e8.3	2.1	1.4	.82
16	2.3	e1.0	e.67	e.82	e.82	e1.3	e16	9.0	e7.9	1.4	1.4	.85
17	2.4	e1.0	e.75	e.80	e.81	e1.1	e17	12	e6.7	2.4	1.1	.76
18	3.9	e1.1	e.75	e.80	e.84	e1.1	e18	9.3	6.8	2.1	.92	.78
19	4.3	e1.0	e.74	e.82	e.82	e1.2	e16	7.2	6.2	2.4	.84	.78
20	3.5	e.98	e.77	e.80	e.83	e1.0	e13	9.0	5.8	2.5	.79	.77
21	3.4	e1.0	e.76	e.78	e.84	e1.2	e13	8.8	5.8	2.2	.87	.70
22	3.4	e.97	e.75	e.80	e.90	e1.2	e12	7.5	5.6	2.2	1.0	.70
23	3.2	e.80	e.79	e.83	e.93	e1.3	e12	8.9	5.1	2.1	1.0	.70
24	3.0	e.78	e.78	e.83	e.92	e1.4	e14	7.1	4.6	2.1	2.0	.70
25	2.9	e.90	e.78	e.82	e.92	e1.3	e14	7.8	4.5	2.0	1.8	.70
26	2.8	e.80	e.77	e.86	e.90	e1.3	e15	8.2	4.1	1.5	1.5	.70
27	2.8	e.86	e.79	e.90	e.95	e1.3	e16	9.1	3.9	1.5	1.2	.70
28	2.7	e.86	e.83	e.89	e1.0	e1.3	e16	e9.3	3.5	6.3	1.0	.70
29	2.7	e.87	e.82	e.87	---	e1.2	e17	e9.0	4.3	5.7	.93	.70
30	2.7	e.80	e.87	e.85	---	e3.0	e17	e8.7	4.9	5.3	.84	.70
31	3.0	---	e.82	e.86	---	e5.0	---	e8.5	---	3.3	.70	---
TOTAL	94.7	41.58	22.96	26.09	24.30	57.1	424	335.4	209.7	86.9	47.39	23.09
MEAN	3.05	1.39	.74	.84	.87	1.84	14.1	10.8	6.99	2.80	1.53	.77
MAX	4.5	3.0	.87	.90	1.0	5.0	18	19	15	6.3	4.6	1.1
MIN	2.3	.78	.60	.78	.80	1.0	10	7.1	3.5	1.4	.70	.63
AC-FT	188	82	46	52	48	113	841	665	416	172	94	46

CAL YR 1986 TOTAL 3098.40 MEAN 8.49 MAX 56 MIN .60 AC-FT 6150
WTR YR 1987 TOTAL 1393.20 MEAN 3.82 MAX 19 MIN .60 AC-FT 2760

e Estimated

09312800 WILLOW CREEK NEAR CASTLE GATE, UT

LOCATION.--Lat 39°46'37", long 110°47'30", in SW¼SE¼SW¼ sec.15, T.12 S., R.10 E., Carbon County, Hydrologic Unit 14060007, on right bank 130 ft upstream from Deep Canyon, 170 ft east of State Highway 33, 1.5 mi downstream from junction with two major tributaries, 5.1 mi northeast of Castle Gate, 5.4 mi upstream from mouth, and 12.3 mi north of Price.

DRAINAGE AREA.--62.8 mi².

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,000 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--25 years, 9.88 ft³/s, 7,160 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 836 ft³/s Aug. 6, 1973, gage height, 6.47 ft from floodmarks; no flow on many days.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 8	1800	*304	*3.37	No other peak greater than base discharge.			

Minimum discharge, 0.73 ft³/s Sept. 11, 12, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.5	e2.2	e2.2	e2.2	e4.0	e65	e23	14	4.8	2.9	1.3
2	8.6	3.3	e2.5	e2.3	e2.5	e4.5	e40	e23	15	4.4	2.6	1.2
3	10	3.0	e2.6	e2.0	e2.4	e4.5	e45	e22	14	4.1	2.5	1.2
4	7.2	3.0	e2.5	e2.2	e2.4	e5.0	e45	e21	12	3.9	2.3	1.4
5	5.4	3.1	e2.7	e2.0	e2.2	e5.3	e40	e20	12	3.7	2.2	1.4
6	4.6	2.7	e2.5	e2.0	e2.5	e5.0	e50	e19	12	3.5	3.9	1.3
7	4.3	2.0	e2.4	e2.0	e2.8	e5.0	e65	e19	14	3.5	5.6	1.3
8	4.3	2.5	e2.6	e2.0	e2.6	e4.7	e190	18	e12	3.4	2.9	1.4
9	4.2	e2.3	e2.3	e1.9	e3.0	e4.8	97	18	e11	3.3	2.5	1.1
10	4.2	e2.4	e2.1	e1.9	e2.9	e5.0	80	18	e10	3.2	2.5	1.0
11	4.5	e2.3	e2.2	e1.9	e2.9	e4.5	72	17	e9.8	5.0	2.3	.99
12	3.7	e2.4	e2.4	e2.0	e3.0	e5.0	55	16	e9.4	5.7	2.0	.92
13	3.3	2.9	e2.4	e2.2	e2.7	e5.0	40	17	e9.0	3.6	2.0	1.0
14	3.4	3.0	e2.4	e2.3	e2.7	e4.9	52	17	e8.8	3.3	2.1	1.2
15	3.4	2.9	e2.6	e2.0	e2.6	e4.6	e54	16	e9.4	3.1	2.2	1.6
16	3.4	2.9	e2.5	e2.0	e2.6	e4.4	e60	16	e10	3.0	2.2	1.2
17	3.5	3.5	e2.6	e1.9	e2.4	e4.4	e70	17	e9.0	5.9	1.8	1.1
18	5.8	3.3	e2.6	e1.9	e2.5	e4.5	e60	18	e8.8	5.0	1.8	1.0
19	4.8	e3.1	e2.5	e2.0	e2.4	e4.9	e50	17	e8.9	3.4	1.7	1.1
20	4.2	2.8	e2.6	e1.9	e2.3	e4.3	e38	20	6.6	3.2	1.7	1.0
21	4.0	2.8	e2.2	e1.9	e2.4	e4.7	e33	19	6.5	4.2	1.9	1.0
22	3.8	2.2	e2.2	e2.0	e2.7	e4.7	e27	18	6.0	3.5	2.1	.99
23	3.9	2.3	e2.3	e2.1	e3.0	e4.5	e27	18	5.9	2.9	2.2	.98
24	3.7	2.6	e2.2	e2.1	e2.8	e4.7	e25	17	5.6	2.6	15	.93
25	3.6	e2.5	e2.2	e2.1	e2.8	e4.8	e25	18	5.3	2.6	4.1	.97
26	3.6	2.5	e2.1	e2.2	e2.7	e4.3	e25	20	5.1	3.0	2.1	.93
27	3.5	e2.5	e2.2	e2.4	e2.9	e4.2	e23	17	5.0	2.6	1.8	.98
28	3.4	e2.6	e2.4	e2.2	e3.4	e4.3	e23	16	5.0	3.8	1.6	1.1
29	3.5	e2.6	e2.3	e2.2	---	e5.0	e22	15	9.7	14	1.5	1.1
30	3.5	e2.5	e2.5	e2.0	---	e15	e23	15	6.2	4.6	1.4	.95
31	3.5	---	e2.4	e2.0	---	e32	---	15	---	3.4	1.3	---
TOTAL	136.1	82.0	74.2	63.8	74.3	182.5	1521	560	276.0	126.2	84.7	33.64
MEAN	4.39	2.73	2.39	2.06	2.65	5.89	50.7	18.1	9.20	4.07	2.73	1.12
MAX	10	3.5	2.7	2.4	3.4	32	190	23	15	14	15	1.6
MIN	3.3	2.0	2.1	1.9	2.2	4.0	22	15	5.0	2.6	1.3	.92
AC-FT	270	163	147	127	147	362	3020	1110	547	250	168	67

CAL YR 1986 TOTAL 5904.93 MEAN 16.2 MAX 83 MIN 1.4 AC-FT 11710
WTR YR 1987 TOTAL 3214.42 MEAN 8.81 MAX 190 MIN .92 AC-FT 6380

e Estimated

09314500 PRICE RIVER AT WOODSIDE, UT

LOCATION.--Lat 39°15'50", long 110°20'45", in SW¼SE¼SE¼ sec.9, T.18 S., R.14 E., Emery County, Hydrologic Unit 14060007, on left downstream wingwall of old highway bridge, 200 ft downstream from railroad bridge at Woodside, and 16.3 mi upstream from mouth.

DRAINAGE AREA.--1,540 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to December 1910, January to August 1911 (gage heights only), November 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,600 ft by barometer. September 1909 to August 1911, reference point at site about 100 ft upstream at different datum. Nov. 27, 1945 to Oct. 16, 1954, water-stage recorder at site 15 ft downstream at datum 1.85 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 18,000 acres. Flow affected by storage in Scofield Reservoir, usable capacity, 65,780 acre-ft, since 1926 (see station 09311000).

AVERAGE DISCHARGE.--41 years, 130 ft^3/s, 94,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft^3/s Sept. 11, 1980, gage height, 11.16 ft, from rating curve extended above 1,200 ft^3/s; no flow for several days in 1960, 1981, and part of July 8, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 25	0100	*3,430	*8.96	No other peak greater than base discharge.			

Minimum daily discharge, 22 ft^3/s Jan. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	106	85	e58	e52	e70	81	92	116	51	e195	92
2	161	107	78	e56	e50	e80	122	105	104	54	e175	81
3	708	106	e70	e56	e48	83	211	106	93	48	e150	73
4	392	107	e69	e52	e50	88	216	103	87	44	e120	72
5	279	106	e64	e45	e54	89	292	90	94	42	104	68
6	230	107	e63	e43	e60	91	255	82	92	39	171	66
7	203	104	e57	e42	e58	126	281	80	89	37	e250	62
8	179	103	e56	e40	e64	141	371	80	95	32	244	64
9	159	101	e54	e38	e70	161	346	82	126	30	131	65
10	150	e95	e50	e35	e75	171	278	80	187	33	101	62
11	206	e90	e42	e34	e70	167	233	79	126	35	88	59
12	210	e88	e45	e33	e74	143	228	83	100	45	75	57
13	138	e87	e45	e30	e76	122	200	76	83	53	72	61
14	125	e88	e47	e32	e76	133	155	73	65	54	87	107
15	120	e89	e45	e25	e77	123	151	76	54	45	88	61
16	123	e89	e54	e24	e80	126	200	77	52	38	78	54
17	121	e90	e60	e24	e78	138	216	86	46	57	76	55
18	119	e86	e62	e24	e80	130	211	143	41	81	70	56
19	121	e88	e63	e24	e81	117	199	173	37	86	61	51
20	133	93	e61	e25	e80	137	168	260	37	66	58	50
21	124	97	e62	e24	e74	135	143	263	37	57	58	48
22	121	93	e63	e22	e74	123	122	294	37	50	62	47
23	119	92	e64	e27	e76	118	105	188	35	50	69	46
24	119	90	e64	e29	e86	102	98	160	34	42	1240	43
25	117	90	e60	e30	e89	96	105	148	35	37	1270	42
26	115	86	e59	e31	e79	90	103	135	34	38	280	42
27	112	85	e58	e32	e76	89	100	149	33	65	170	43
28	110	82	e62	e35	e71	89	93	144	36	266	136	44
29	108	79	e58	e40	---	87	93	130	40	341	125	47
30	104	86	e58	e45	---	85	91	123	40	1020	112	48
31	104	---	e59	e50	---	82	---	123	---	369	102	---
TOTAL	5297	2810	1837	1105	1978	3532	5467	3883	2084	3305	6018	1766
MEAN	171	93.7	59.3	35.6	70.6	114	182	125	69.5	107	194	58.9
MAX	708	107	85	58	89	171	371	294	187	1020	1270	107
MIN	104	79	42	22	48	70	81	73	33	30	58	42
AC-FT	10510	5570	3640	2190	3920	7010	10840	7700	4130	6560	11940	3500

CAL YR 1986 TOTAL 105900 MEAN 290 MAX 1230 MIN 42 AC-FT 210100
WTR YR 1987 TOTAL 39082 MEAN 107 MAX 1270 MIN 22 AC-FT 77520

e Estimated

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1946 to September 1949, February 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1951 to September 30, 1978.
WATER TEMPERATURES: February 1951 to September 1959, November 1961 to September 1963, October 1964 to Sept. 30, 1978.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 8,540 microsiemens Dec. 11, 1951; minimum daily, 814 microsiemens June 1, 1952.
WATER TEMPERATURES: Maximum, 32.0°C July 10, 11, 1954 and Apr. 7, 1977; minimum, 0.0°C on many days during winter period each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT , 1986										
23...	1100	116	3110	8.50	14.5	10.5	9.7	645	980	770
NOV										
18...	1030	83	3610	8.50	9.5	4.5	10.9	641	1100	850
FEB , 1987										
25...	1030	93	3360	8.50	6.0	0.5	12.4	640	1000	710
APR										
22...	1030	115	1950	8.50	15.5	11.5	9.0	647	670	400
MAY										
20...	1045	320	2670	8.40	17.5	15.5	8.1	640	790	520
JUN										
30...	1050	41	3020	8.40	25.5	20.5	7.3	647	930	730
JUL										
24...	1040	41	2530	8.30	30.0	20.5	7.1	646	850	630
AUG										
18...	1025	71	2620	8.40	25.5	19.0	7.5	649	800	580
31...	0950	98	2850	8.40	21.0	18.5	7.7	652	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WH WAT TOTAL FIELD MG/L AS HCO3	CAR-BONATE WH WAT TOTAL FIELD MG/L AS CO3	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT , 1986										
23...	160	140	370	45	5	7.0	230	10	205	25
NOV										
18...	170	170	450	46	6	7.6	280	30	275	1800
FEB , 1987										
25...	170	150	420	47	6	7.3	370	14	328	1900
APR										
22...	120	90	220	41	4	4.7	310	10	268	830
MAY										
20...	150	100	320	47	5	7.1	290	20	271	1100
JUN										
30...	160	130	390	47	6	8.3	230	6	202	1700
JUL										
24...	160	110	310	44	5	7.0	280	0	226	--
AUG										
18...	140	110	310	45	5	7.6	230	20	226	1400
31...	--	--	--	--	--	--	230	20	219	--

09314500 PRICE RIVER AT WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT , 1986										
23...	11	0.30	4.9	2840	850	3.5	796	0.300	0.250	0.030
NOV										
18...	74	0.30	1.8	3060	2900	4.2	686	0.200	0.180	0.050
FEB										
25...	66	0.30	5.6	2910	2900	4.0	730	0.800	0.700	0.260
APR										
22...	42	0.30	10	1560	1500	2.1	484	0.400	0.380	0.040
MAY										
20...	49	0.30	5.0	1970	1900	2.7	1700	0.500	0.540	0.060
JUN										
30...	54	0.20	0.2	2590	2600	3.5	286	<0.100	<0.100	0.080
JUL										
24...	--	0.30	4.7	2100	--	--	--	0.700	0.620	0.040
AUG										
18...	47	0.30	5.4	2160	2200	2.9	411	0.600	0.610	0.020
31...	--	--	--	--	--	--	--	--	--	--

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT , 1986									
23...	0.020	0.03	0.87	0.90	1.2	5.3	0.080	0.030	0.09
NOV									
18...	0.040	0.05	0.55	0.60	0.80	3.5	0.030	<0.010	--
FEB , 1987									
25...	0.300	0.39	1.4	1.7	2.5	11	0.100	0.080	0.25
APR									
22...	0.040	0.05	1.2	1.2	1.6	7.1	0.070	0.050	0.15
MAY									
20...	0.070	0.09	3.0	3.1	3.6	16	2.70	0.040	0.12
JUN									
30...	0.060	0.08	0.42	0.50	--	--	0.010	<0.050	--
JUL									
24...	0.020	0.03	1.2	1.2	1.9	8.4	0.390	0.020	0.06
AUG									
18...	0.030	0.04	1.4	1.4	2.0	8.9	0.050	0.030	0.09
31...	--	--	--	--	--	--	--	--	--

DATE	TIME	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
NOV , 1986			
18...	1030	6.5	0.3
APR , 1987			
22...	1030	5.2	3.9
MAY			
20...	1045	7.0	<5.0
AUG			
18...	1025	8.5	3.5

09314500 PRICE RIVER NEAR WOODSIDE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
OCT , 1986								
23...	1100	1000	1	<10	<1	<10	6	1300
MAY , 1987								
20...	1045	39000	7	<10	<1	40	28	35000

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT , 1986							
23...	<5	230	50	9	10	5	20
MAY , 1987							
20...	17	210	1200	2	31	<1	160

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT , 1986		
23...	1100	300
NOV		
18...	1030	330
FEB , 1987		
25...	1030	290
APR		
22...	1030	160
MAY		
20...	1045	250
JUN		
30...	1050	340
JUL		
24...	1040	280
AUG		
18...	1025	290
31...	0950	--

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
FEB , 1987						
25...	1030	93	0.5	93	366	92
MAR						
27...	1100	93	7.0	--	209	52
APR						
22...	1030	115	11.5	--	676	210
MAY						
20...	1045	320	15.5	--	3530	3050
JUN						
30...	1050	41	20.5	--	128	14
JUL						
24...	1040	41	20.5	--	702	78
AUG						
18...	1025	71	19.0	--	682	130
31...	0950	98	18.5	--	545	144

09315000 GREEN RIVER AT GREEN RIVER, UT

LOCATION.--Lat 38°59'10", long 110°09'02", in NW¼NW¼SW¼ sec.15, T.21 S., R.16 E., Emery County, Hydrologic Unit 14060008, on right bank 100 ft upstream from site of old highway bridge, 500 ft upstream from railroad bridge, 1.1 mi southeast of town of Green River, 22.5 mi upstream from San Rafael River, at mile 117.4 upstream from mouth.

DRAINAGE AREA.--44,850 mi^2 approximately, of which about 4,280 mi^2 (including 3,959 mi^2 in Great Divide Basin in southern Wyoming) is noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1894 to October 1899, October 1904 to current year. Published as "at Blake" 1894-99, as "near Elgin" 1911, and as "at Little Valley, near Green River" 1910-23.

REVISED RECORDS.--WSP 918: 1895-1900. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,040.18 ft NGVD of 1929. Prior to Nov. 6, 1914, staff, wire-weight, or chain gages at several sites within 7 mi of present site at various datums. Nov. 6, 1914 to June 20, 1924, water-stage recorder at site 7 mi downstream at different datum. June 21 to Sept. 18, 1924, chain gage, and Sept. 19, 1924 to May 7, 1947, water-stage recorder, at site 100 ft downstream at present datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation above station. Flow regulated by Flaming Gorge Reservoir (see station 09234400) since Nov. 1, 1962.

AVERAGE DISCHARGE.--88 years, 6,415 ft^3/s, 4,648,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft^3/s June 27, 1917, gage height, 14.53 ft, site and datum then in use; minimum, 255 ft^3/s Nov. 26, 1931; minimum gage height, 4.08 ft Aug. 1, Dec. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 21	2315	*13,700	*9.53				

Minimum discharge, 1,420 ft^3/s Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4230	6140	6760	e5210	5200	5490	3560	10400	7870	e3000	3800	3410
2	4860	5860	6710	4920	5360	5370	3530	10500	7510	2700	3510	3380
3	5520	5970	6600	5420	5330	5050	3560	11200	7120	2970	3240	2970
4	5620	5950	6470	e5580	5170	4890	3810	11400	6870	3090	3070	2850
5	6040	6120	6260	5620	5320	4180	4230	12100	6860	3320	2950	2940
6	5870	6180	4900	5710	5200	3850	4530	13300	7250	3300	2730	2620
7	5580	6370	4210	5740	5240	3670	5450	12400	6980	3450	2800	2770
8	5840	6520	5140	5760	5260	3770	6500	11200	6920	3490	2800	2410
9	5300	5510	6270	5750	5360	4130	6850	10600	7470	3330	2800	2390
10	5170	5190	6350	5610	5310	5780	7750	9920	8280	3200	3180	2260
11	5380	6020	6290	5230	5370	6830	7820	9170	7970	3210	2960	2330
12	5040	6060	6080	e5140	5690	7840	7690	9360	7620	3310	2430	2330
13	4980	6210	5730	e5000	6180	7700	7420	9810	8030	3260	2270	2970
14	5370	6320	5780	e4940	5640	7050	7380	9900	8410	3300	2160	2900
15	5190	6670	5540	e4900	5690	6260	6360	10200	8360	3310	2090	2950
16	5970	6650	5740	4860	6060	5820	6090	10700	7740	3090	2180	2860
17	e6180	6700	5900	3860	5850	5590	5980	11200	7080	2960	2170	2690
18	e6140	6760	5740	2680	6240	5710	5910	12000	6640	2930	2200	2500
19	e6100	6750	5880	e3000	6030	5770	5610	12500	6030	2840	2280	2520
20	e6070	6850	5960	3220	5750	5660	5670	13100	5350	2920	2320	2580
21	5190	6980	5990	3340	5680	5500	6630	13600	4930	3130	2650	2450
22	5780	6990	5970	e4200	6000	5230	7640	13300	4640	3100	3010	2550
23	5800	6990	6060	e4530	5500	5000	8610	12200	4400	2880	3180	2550
24	6090	7030	6020	4930	5380	5040	8980	11500	4130	2830	3270	2660
25	5900	7140	5930	4830	5540	4980	8090	10600	3800	2770	4190	2540
26	5990	7200	5860	5000	5620	4420	7170	9780	3610	2760	4390	2410
27	5900	7050	5890	5200	5670	4060	6930	9220	3460	2680	4550	2510
28	6170	6980	5710	5170	5480	3910	7940	9040	3570	2720	3990	2770
29	6300	6810	5800	5040	---	3870	9540	9090	3650	2770	3450	2520
30	5910	6730	5880	4950	---	3830	10000	8550	3960	3480	3700	2470
31	6200	---	e5430	4940	---	3750	---	8220	---	3480	3490	---
TOTAL	175600	194700	182710	150380	156120	160000	197230	335950	186510	95580	93810	80060
MEAN	5665	6490	5894	4851	5576	5161	6574	10840	6217	3083	3026	2669
MAX	6300	7200	6760	5760	6240	7840	10000	13600	8410	3490	4550	3410
MIN	4230	5190	4210	2680	5170	3670	3530	8220	3460	2680	2090	2260
AC-FT	348300	386200	362400	298300	309700	317400	391200	666400	369900	189600	186100	158800

CAL YR 1986 TOTAL 3604300 MEAN 9875 MAX 35400 MIN 3320 AC-FT 7149000
WTR YR 1987 TOTAL 2008650 MEAN 5503 MAX 13600 MIN 2090 AC-FT 3984000

e Estimated

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

LOCATION.--Daily samples collected at bridge on U.S. Highways 50 and 6, in town of Green River, 0.7 mi from gaging station.

PERIOD OF RECORD.--August 1928 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to September 1981, March 1982 to current year.
WATER TEMPERATURES: May 1949 to September 1959, October 1964 to September 1981, March 1982 to current year.
SUSPENDED-SEDIMENT DISCHARGE: May 1930 to September 1984.

INSTRUMENTATION.--Water-quality monitor installed April 1985.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 3,250 microsiemens Dec. 1, 1967; minimum daily, 255 microsiemens June 30, 1978.
WATER TEMPERATURES: Maximum, 30.0°C Aug. 13, 1958; minimum, 0.0°C on many days during winter period each year.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 66,000 mg/L July 11, 1936; minimum daily, 19 mg/L Sept. 30, 1974.
SEDIMENT LOADS: Maximum daily, 2,230,000 tons July 11, 1936; minimum daily, 54 tons Sept. 27, 1956.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,240 microsiemens Aug. 28; minimum observed, 415 microsiemens May 21.
WATER TEMPERATURES: Maximum recorded, 28.1°C Aug. 8; minimum, 0.0°C many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1986											
22...	1300	5800	1010	8.20	10.5	10.5	--	[illegible]	660	--	--
NOV											
19...	1200	6810	850	8.40	11.5	6.5	48	10.3	653	70	140
DEC											
19...	1130	5830	850	8.30	7.5	[illegible]	--	12.4	658	--	--
FEB , 1987											
23...	1200	5000	670	8.30	9.0	3.5	--	11.3	640	--	--
APR											
21...	1030	6500	870	8.40	15.5	12.0	550	8.9	665	--	--
MAY											
19...	1100	13000	470	8.30	21.0	18.0	--	8.0	650	13	130
JUN											
26...	1045	3400	680	8.40	27.5	22.5	32	7.2	661	47	190
JUL											
21...	1110	3390	840	8.30	30.0	21.0	400	7.2	659	--	--
AUG											
07...	1130	2670	1060	8.40	29.5	24.5	150	6.8	660	250	890
31...	1430	3470	1020	8.30	33.0	20.5	--	7.3	664	--	--

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WH WAT TOTAL FIELD MG/L AS HCO3	CAR-BONATE WH WAT TOTAL FIELD MG/L AS CO3	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
OCT , 1986											
22...	280	110	[illegible]	31	70	35	2	2.5	--	--	--
NOV											
19...	290	120	65	32	67	33	2	2.2	190	10	174
DEC , 1987											
19...	310	0	69	33	73	34	2	2.4	--	--	--
FEB											
23...	300	120	67	32	73	34	2	3.0	--	--	--
APR											
21...	300	120	64	33	67	33	2	3.2	190	10	174
MAY											
19...	--	--	--	--	--	--	--	--	130	--	105
JUN											
26...	230	82	52	24	53	[illegible]	2	2.4	160	10	147
JUL											
21...	300	130	66	32	71	34	2	3.0	200	2	164
AUG											
07...	320	140	69	37	90	37	2	3.9	200	10	183
31...	310	130	70	34	81	36	2	3.7	--	--	--

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1986										
22...	240	21	0.30	6.5	543	540	0.74	8820	--	--
NOV										
19...	230	19	0.30	6.3	550	540	0.75	9670	--	<0.010
DEC										
19...	250	22	0.30	6.3	525	--	0.71	8260	--	--
FEB , 1987										
23...	240	22	0.30	7.9	571	550	0.78	8760	--	--
APR										
21...	240	18	0.30	9.6	553	550	0.75	9790	--	<0.010
MAY										
19...	--	--	--	--	--	--	--	--	--	<0.010
JUN										
26...	180	18	0.20	8.4	431	440	0.59	4030	--	<0.010
JUL										
21...	240	24	0.30	6.[illegible]	573	540	0.78	5240	--	<0.010
AUG										
07...	320	26	0.30	7.9	717	670	0.98	5750	0.160	0.010
31...	310	22	0.40	8.0	660	640	0.90	6180	--	--

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT , 1986										
22...	0.170	--	--	--	--	--	--	--	0.020	0.06
NOV										
19...	0.270	<0.010	<0.010	--	--	0.60	0.130	0.010	<0.010	--
DEC										
19...	0.290	--	0.020	0.03	--	--	--	--	<0.010	--
FEB , 1987										
23...	0.520	--	0.030	0.04	--	--	--	--	0.030	0.09
APR										
21...	0.420	0.030	<0.010	--	0.47	0.50	0.040	0.020	0.020	0.06
MAY										
19...	0.[illegible]10	0.020	0.020	0.03	1.6	1.6	0.770	0.050	0.030	0.09
JUN										
26...	<0.100	0.040	0.010	0.01	0.45	0.50	0.100	<0.010	<0.010	--
JUL										
21...	<0.100	0.010	0.020	0.03	0.79	0.80	0.140	0.010	<0.010	--
AUG										
07...	0.170	0.010	0.020	0.03	0.69	0.70	0.350	0.060	0.010	0.03
31...	0.240	--	0.040	0.05	--	--	--	--	0.020	0.06

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV , 1986											
19...	1200	<10	2	73	<0.5	<1	<1	<3	4	6	<5
APR , 1987											
21...	1030	20	2	74	<0.5	<1	<1	<3	3	6	<5
JUN											
26...	1045	<10	2	86	<0.5	<1	<1	<3	2	3	<5
JUL											
21...	1110	<10	1	[illegible]4	<0.5	<1	<1	<3	2	<3	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV , 1986										
19...	36	5	<0.1	<10	3	2	<1	710	<6	8
APR , 1987										
21...	33	2	<0.1	20	<1	2	<1	690	<6	21
JUN										
26...	29	2	<1.0	<10	<1	<1	<1	570	<6	8
JUL										
21...	30	<1	<0.1	<10	2	8	1	730	<6	<3

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1986		
22...	1300	150
DEC		
19...	1130	140
FEB , 1987		
23...	1200	130
MAY		
19...	1100	--
AUG		
07...	1130	--
31...	1430	210

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)
MAY , 1987								
19...	1100	3.3	18	3.8	5.4	2.9	4.5	0.04

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	770	620	840	770	---	1060	560	610	770	1100	910
2	950	---	630	680	770	880	1070	560	620	760	980	890
3	---	770	630	660	770	860	1090	---	620	790	1050	890
4	---	750	630	---	790	870	---	500	620	820	1070	880
5	900	---	630	---	780	870	1020	500	600	820	980	---
6	970	690	---	680	780	870	1040	495	610	830	970	900
7	960	710	680	660	780	900	990	510	620	800	1040	870
8	---	[illegible]	670	670	---	940	1020	520	---	800	---	870
9	920	770	670	650	780	960	990	550	580	760	950	900
10	---	830	650	690	780	910	940	---	---	760	930	930
11	---	750	660	710	790	880	890	600	550	770	920	920
12	940	730	620	700	800	840	830	570	540	780	930	---
13	900	760	650	680	800	---	800	540	560	780	1010	900
14	880	750	660	690	800	790	800	---	530	800	---	920
15	890	---	660	770	810	800	790	500	520	790	1040	850
16	880	820	495	810	810	770	---	475	---	---	1020	860
17	850	830	730	810	800	820	810	470	530	---	1010	880
18	---	770	690	870	850	850	820	450	560	---	990	890
19	820	720	850	940	880	890	---	450	560	880	980	910
20	810	750	690	920	860	900	830	425	560	860	1010	---
21	830	670	---	950	850	940	840	415	590	860	990	890
22	850	730	680	950	850	920	830	475	620	---	---	890
23	850	690	690	920	850	900	800	455	630	860	870	890
24	840	750	680	900	850	920	690	490	660	860	850	890
25	840	710	680	---	---	940	---	---	660	870	1240	880
26	840	690	680	830	850	950	660	510	680	870	950	880
27	840	---	680	850	840	990	660	520	700	900	900	870
28	850	870	700	820	850	1030	670	550	710	880	960	890
29	830	---	680	790	---	1040	690	570	---	970	1000	880
30	820	---	680	780	---	1030	---	600	740	1160	970	---
31	830	---	670	780	---	1040	---	590	---	1020	950	---
MEAN	880	740	670	780	810	910	870	510	610	850	990	890

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	10.0	5.0	1.0	2.0	---	10.0	18.0	19.0	25.0	26.0	23.0
2	13.0	---	4.5	2.0	2.0	5.0	10.5	18.0	20.5	25.0	27.0	23.5
3	---	10.0	4.5	.0	.5	6.0	11.0	---	20.5	25.0	25.0	23.5
4	---	9.5	4.5	---	2.0	7.0	---	16.0	21.0	25.0	28.0	22.5
5	13.0	---	4.0	---	1.0	8.0	12.0	17.0	22.0	25.0	25.0	---
6	13.0	8.0	---	2.0	2.0	7.0	12.0	17.0	23.0	25.0	27.0	22.0
7	14.0	7.0	4.5	2.0	2.0	9.0	13.0	17.0	23.0	25.0	25.0	22.0
8	---	7.0	4.5	2.0	---	9.0	13.0	18.0	---	25.0	---	21.5
9	14.0	6.5	4.0	2.0	2.5	10.0	13.0	18.0	21.0	25.0	25.0	22.0
10	---	6.5	3.5	2.0	2.0	9.0	13.0	---	---	23.0	26.0	21.0
11	---	5.0	3.0	.0	3.0	9.0	12.5	20.0	22.0	20.5	25.0	21.0
12	10.5	5.0	3.0	1.0	2.0	8.5	12.0	20.0	23.0	23.0	25.0	---
13	10.5	5.0	1.5	.0	2.0	---	12.0	21.0	24.0	25.0	23.5	19.0
14	11.0	6.0	1.0	.0	4.0	8.0	12.0	---	24.0	25.0	---	19.0
15	10.5	---	.0	.0	5.0	7.0	14.0	21.0	24.0	26.0	22.0	19.5
16	11.0	6.0	1.0	.0	5.0	6.0	---	20.0	---	---	22.0	20.0
17	10.5	5.5	1.5	.0	5.0	8.0	15.0	20.0	24.0	---	22.0	20.0
18	---	7.0	1.5	.0	5.0	8.5	15.0	20.0	22.0	---	24.0	20.0
19	---	8.0	1.0	.0	4.5	7.0	---	19.5	24.0	21.0	23.0	18.0
20	11.5	7.5	2.5	.5	5.0	7.0	13.0	18.5	24.0	21.0	21.5	---
21	12.5	7.0	---	.0	5.0	8.0	14.0	16.5	23.0	23.0	22.5	19.0
22	12.5	7.5	1.5	.0	5.0	8.0	14.0	17.0	24.5	---	---	19.5
23	13.0	6.0	1.5	.5	4.0	8.0	14.0	17.0	24.5	24.0	23.0	19.5
24	13.0	6.5	2.0	.0	4.0	8.0	15.0	18.0	24.5	24.0	23.0	20.0
25	13.0	5.5	1.5	---	---	8.0	---	---	24.0	24.5	22.0	20.0
26	13.0	6.0	1.0	1.0	3.5	8.0	17.0	16.0	22.5	26.0	22.0	20.0
27	13.0	---	1.0	2.0	3.5	8.5	17.0	16.5	24.0	26.0	21.0	20.0
28	12.0	4.0	1.0	1.0	4.0	8.0	18.0	16.5	25.0	26.0	24.0	19.0
29	12.0	---	2.0	1.0	---	7.0	19.0	17.0	---	27.0	22.0	18.0
30	13.0	5.0	2.0	.5	---	8.0	---	18.0	25.0	25.0	23.0	---
31	11.0	---	1.0	.0	---	9.0	---	18.5	---	25.0	23.5	---
MEAN	---	6.5	2.5	.5	3.5	8.0	13.5	18.0	23.0	24.5	24.0	20.5

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1040	999	1010	---	---	---	840	830	837	820	690	781
2	990	920	962	---	---	---	850	840	844	830	810	821
3	1080	900	958	---	---	---	850	830	843	830	820	828
4	1010	900	934	---	---	---	850	830	841	840	810	827
5	910	880	895	---	---	---	860	830	840	830	820	823
6	960	900	943	---	---	---	870	850	859	830	800	815
7	980	940	952	---	---	---	890	870	879	870	800	807
8	960	930	944	---	---	---	900	870	881	820	810	815
9	940	900	922	---	---	---	910	890	900	820	800	806
10	980	890	908	---	---	---	900	860	876	810	800	805
11	1070	890	948	---	---	---	870	850	861	820	800	808
12	970	900	941	---	---	---	860	830	843	810	730	786
13	910	860	894	---	---	---	862	830	842	810	740	779
14	900	860	881	---	---	---	880	830	860	810	782	802
15	920	890	898	---	---	---	880	810	847	810	770	786
16	920	870	883	---	---	---	880	840	867	810	800	806
17	880	850	862	---	---	---	880	830	860	830	800	817
18	860	838	846	---	---	---	880	850	866	859	820	840
19	840	810	825	---	---	---	890	840	863	895	850	866
20	840	820	823	870	850	860	850	830	842	890	870	880
21	840	820	832	860	840	847	840	820	835	910	880	897
22	---	---	---	860	850	853	840	820	830	920	870	908
23	---	---	---	860	840	850	840	820	830	900	840	875
24	---	---	---	860	840	849	840	830	834	900	830	867
25	---	---	---	850	830	841	840	830	835	890	870	878
26	---	---	---	850	830	836	840	810	826	890	840	886
27	---	---	---	840	820	834	830	800	819	850	780	827
28	---	---	---	850	840	847	830	810	824	840	810	827
29	---	---	---	850	830	846	830	780	817	810	760	790
30	---	---	---	840	830	835	830	820	824	800	770	783
31	---	---	---	---	---	---	830	810	820	790	770	777
MONTH	---	---	---	---	---	---	910	780	847	920	690	826

09314000 GREEN RIVER AT GREEN RIVER, UT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	786	750	769	---	---	---	1070	1050	1060	680	640	661
2	790	760	775	---	---	---	1090	1050	1060	650	630	638
3	780	730	768	---	---	---	1190	1080	1100	630	600	616
4	790	780	783	---	---	---	1190	1040	1100	610	590	594
5	790	750	779	---	---	---	1040	990	1010	590	570	581
6	---	---	---	---	---	---	1000	960	984	580	560	565
7	---	---	---	---	---	---	970	930	945	560	550	557
8	---	---	---	---	---	---	930	910	919	570	550	558
9	---	---	---	---	---	---	920	910	913	577	560	566
10	---	---	---	---	---	---	920	909	910	580	560	568
11	---	---	---	---	---	---	910	880	894	587	570	575
12	---	---	---	---	---	---	890	860	874	590	570	578
13	---	---	---	---	---	---	860	840	851	580	550	569
14	---	---	---	---	---	---	840	830	834	560	550	554
15	---	---	---	---	---	---	850	830	839	550	530	543
16	---	---	---	---	---	---	860	840	850	540	520	529
17	---	---	---	---	---	---	860	850	857	530	500	510
18	---	---	---	---	---	---	860	840	849	510	490	493
19	---	---	---	---	---	---	850	840	849	490	470	486
20	---	---	---	---	---	---	860	850	851	480	460	472
21	---	---	---	---	---	---	890	860	877	480	450	465
22	---	---	---	---	---	---	890	860	876	470	450	463
23	---	---	---	---	---	---	890	850	872	480	450	468
24	---	---	---	---	---	---	850	780	815	500	470	486
25	---	---	---	---	---	---	780	740	753	500	490	495
26	---	---	---	---	---	---	760	730	739	500	490	499
27	---	---	---	---	---	---	740	720	732	520	500	507
28	---	---	---	1040	1000	1020	730	710	721	530	510	516
29	---	---	---	1060	1040	1050	720	700	714	540	520	528
30	---	---	---	1060	1040	1050	710	670	692	615	530	547
31	---	---	---	1060	1050	1060	---	---	---	650	620	640
MONTH	---	---	---	---	---	---	1190	670	878	680	450	543

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	675	640	660	820	780	796	---	---	---	1030	1000	1010
2	690	670	678	820	790	800	---	---	---	1010	990	999
3	690	680	686	843	820	830	---	---	---	990	980	985
4	690	680	687	870	850	856	---	---	---	980	970	972
5	690	670	677	880	860	870	---	---	---	980	960	970
6	680	670	680	900	857	882	---	---	---	980	970	971
7	700	680	686	850	827	842	---	---	---	980	960	971
8	700	680	687	840	810	830	1120	990	1040	970	960	969
9	680	670	672	810	790	799	1070	980	1050	970	960	968
10	670	650	664	790	780	789	1060	990	1040	980	960	970
11	670	590	633	800	790	792	990	940	964	980	970	976
12	600	560	576	820	790	801	990	940	974	980	970	971
13	580	550	565	800	780	792	1020	990	1000	970	951	963
14	570	540	554	820	800	808	1030	1010	1020	960	950	959
15	550	520	537	820	800	810	1030	1020	1030	970	950	960
16	530	520	527	810	800	807	1060	1030	1040	960	940	951
17	540	520	531	810	800	803	1070	1020	1050	950	940	946
18	560	530	547	860	800	824	1020	1000	1010	950	940	947
19	550	546	550	860	810	828	1030	1000	1020	950	940	947
20	560	540	548	850	830	840	1040	1020	1030	950	940	947
21	570	560	566	850	811	832	1050	1030	1040	950	920	937
22	580	560	574	830	800	813	1040	1030	1040	930	910	915
23	590	580	586	850	820	836	1030	1000	1010	920	900	909
24	600	590	595	870	840	849	1000	980	990	910	900	905
25	720	600	636	870	860	864	1000	980	989	910	890	899
26	720	710	715	879	860	863	1020	1000	1010	900	890	894
27	740	710	728	880	870	873	1010	990	1000	890	880	887
28	750	720	735	890	870	875	1000	980	988	890	870	880
29	770	740	752	---	---	---	1010	990	1000	880	870	878
30	780	750	763	---	---	---	1020	1010	1020	880	870	874
31	---	---	---	---	---	---	1030	1020	1020	---	---	---
MONTH	780	520	633	---	---	---	---	---	---	1030	870	944

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.4	11.4	12.3	9.8	8.9	9.4	4.2	3.3	3.7	.6	.0	.2
2	12.8	11.8	12.3	9.3	8.5	8.8	4.0	3.1	3.4	1.1	.0	.4
3	12.2	11.7	11.9	8.9	7.8	8.3	3.9	3.1	3.4	.5	.0	.2
4	13.0	11.5	12.2	8.4	7.3	7.8	3.6	2.8	3.1	.2	.0	.1
5	13.0	11.4	12.1	8.4	7.1	7.7	3.4	2.7	3.0	.4	.0	.2
6	13.0	11.3	12.1	7.4	6.7	7.2	3.4	2.8	3.2	1.2	.4	.8
7	13.7	11.7	12.8	7.3	6.1	6.6	4.2	3.2	3.6	1.3	.6	1.0
8	14.4	12.4	13.3	6.4	5.1	5.8	3.7	2.9	3.3	1.5	.5	1.0
9	14.7	12.8	13.6	5.6	4.4	4.9	3.3	2.4	2.9	1.6	.6	1.0
10	14.7	12.9	13.7	5.0	3.8	4.4	2.6	1.7	2.1	1.2	.2	.6
11	13.3	11.1	12.3	4.0	3.1	3.5	2.4	1.3	1.8	1.0	.0	.4
12	11.0	9.4	10.0	4.2	2.8	3.4	1.6	.6	1.1	.6	.0	.1
13	11.0	9.0	9.9	4.7	3.1	3.8	.6	.0	.3	.0	.0	.0
14	10.4	9.0	9.7	4.8	3.5	4.1	.0	.0	.0	.0	.0	.0
15	9.9	8.2	9.0	5.0	3.8	4.3	.0	.0	.0	.0	.0	.0
16	10.3	8.4	9.3	5.7	4.1	4.8	.4	.0	.1	.0	.0	.0
17	10.7	9.3	9.9	6.3	4.7	5.4	.6	.0	.2	.0	.0	.0
18	11.5	9.7	10.5	6.1	5.5	5.8	.8	.0	.3	.3	.0	.1
19	11.4	10.5	10.9	7.1	5.7	6.3	1.6	.4	1.0	.5	.3	.4
20	11.9	10.2	10.9	6.8	5.7	6.2	1.7	.8	1.2	.4	.2	.3
21	11.8	10.6	11.1	6.2	5.4	5.8	1.5	.6	1.0	.2	.0	.1
22	11.9	10.2	11.0	6.6	5.5	5.9	1.5	.6	1.0	.1	.0	.0
23	12.2	10.9	11.5	6.1	5.1	5.5	1.1	.4	.7	.0	.0	.0
24	12.4	11.1	11.7	5.6	4.6	5.0	1.3	.3	.7	.0	.0	.0
25	12.3	11.0	11.6	5.0	4.4	4.6	1.0	.0	.4	.2	.0	.0
26	12.2	10.7	11.4	5.2	4.1	4.6	.6	.0	.2	.3	.0	.0
27	12.1	10.6	11.2	4.5	3.6	4.0	.6	.0	.2	.4	.0	.1
28	11.8	10.4	11.0	4.3	3.4	3.8	.8	.0	.3	.1	.0	.0
29	11.5	10.6	10.9	4.2	3.6	3.8	.8	.0	.3	.3	.0	.1
30	11.9	10.3	11.0	4.7	3.6	4.0	.9	.0	.3	.1	.0	.0
31	11.0	9.9	10.4	---	---	---	.4	.0	.1	.8	.0	.2
MONTH	14.7	8.2	11.3	9.8	2.8	5.5	4.2	.0	1.4	1.6	.0	.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.4	.0	.5	---	---	---	9.8	6.6	8.1	18.1	17.1	17.7
2	2.6	1.0	1.8	---	---	---	10.3	7.7	8.9	17.7	16.3	17.1
3	1.4	.8	1.0	---	---	---	11.1	7.9	9.5	16.2	15.1	15.7
4	3.1	.7	1.5	---	---	---	11.5	9.9	10.7	15.9	15.3	15.5
5	3.4	1.7	2.5	---	---	---	11.5	10.2	10.9	16.4	15.2	15.8
6	3.4	1.7	2.5	---	---	---	11.8	10.1	10.8	16.2	15.3	15.8
7	---	---	---	---	---	---	12.3	9.9	11.1	16.6	15.2	15.9
8	---	---	---	---	---	---	12.9	10.8	11.8	17.4	15.7	16.7
9	---	---	---	---	---	---	13.2	11.1	12.0	18.1	16.8	17.4
10	---	---	---	---	---	---	12.8	11.2	11.9	18.9	17.6	18.2
11	---	---	---	---	---	---	11.9	11.1	11.5	19.7	18.1	18.9
12	---	---	---	---	---	---	11.9	10.6	11.2	20.0	18.6	19.2
13	---	---	---	---	---	---	11.9	10.2	11.0	20.5	19.1	19.8
14	---	---	---	---	---	---	12.5	10.3	11.3	20.5	19.1	19.8
15	---	---	---	---	---	---	13.4	10.9	12.1	21.3	19.6	20.4
16	---	---	---	---	---	---	14.4	11.4	12.8	21.0	20.2	20.6
17	---	---	---	---	---	---	15.5	12.5	13.9	20.4	19.4	20.0
18	---	---	---	---	---	---	15.3	13.5	14.3	19.6	18.6	19.2
19	---	---	---	---	---	---	13.9	12.1	13.3	19.2	18.3	18.6
20	---	---	---	---	---	---	13.6	11.3	12.4	18.3	17.5	18.0
21	---	---	---	---	---	---	13.5	11.6	12.4	17.9	16.9	17.4
22	---	---	---	---	---	---	13.6	11.3	12.4	17.3	16.1	16.8
23	---	---	---	---	---	---	14.4	12.3	13.3	17.8	16.4	17.1
24	---	---	---	---	---	---	15.1	13.4	14.2	17.8	16.9	17.4
25	---	---	---	---	---	---	15.7	13.9	14.8	17.4	16.1	16.8
26	---	---	---	---	---	---	17.0	14.6	15.7	16.4	15.8	16.2
27	---	---	---	---	---	---	17.4	14.9	16.1	16.2	15.5	15.9
28	---	---	---	8.0	6.0	6.9	18.3	15.9	17.1	16.3	14.9	15.6
29	---	---	---	7.7	5.9	6.7	18.6	17.2	17.8	16.9	15.2	16.0
30	---	---	---	7.9	5.2	6.5	18.1	17.5	17.8	17.4	15.8	16.6
31	---	---	---	8.6	5.7	7.1	---	---	---	18.7	16.6	17.6
MONTH	---	---	---	---	---	---	18.6	6.6	12.7	21.3	14.9	17.5

09315000 GREEN RIVER AT GREEN RIVER, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.3	17.5	18.3	26.0	22.4	24.1	---	---	---	23.7	20.8	22.1
2	20.5	17.6	19.0	25.7	22.2	24.0	---	---	---	24.0	21.4	22.6
3	20.4	18.0	19.1	25.6	22.3	24.0	---	---	---	23.8	21.7	22.5
4	21.3	18.5	19.8	25.8	22.4	24.1	---	---	---	23.2	21.0	22.0
5	22.0	19.6	20.8	25.4	22.6	24.0	---	---	---	22.6	20.4	21.5
6	22.7	20.4	21.5	24.7	21.9	23.4	---	---	---	22.1	19.7	20.9
7	23.1	21.4	22.1	25.3	21.9	23.6	26.2	---	---	22.0	19.6	20.8
8	22.6	21.1	21.8	25.3	22.4	23.7	26.1	22.4	24.9	22.7	18.6	20.8
9	22.4	20.9	21.5	25.1	22.0	23.4	26.2	22.7	24.4	22.1	18.2	20.3
10	22.0	20.4	21.1	23.3	21.8	22.6	26.5	23.5	24.9	26.7	15.3	20.4
11	22.2	20.4	21.2	21.8	20.4	21.1	25.9	23.2	24.6	22.7	17.2	19.8
12	22.8	20.8	21.7	23.7	19.9	21.6	---	---	---	25.0	14.6	20.0
13	23.5	21.4	22.5	24.6	21.2	22.8	---	---	---	20.4	18.3	19.3
14	24.2	22.2	23.1	25.2	21.5	23.3	---	---	---	19.5	17.3	18.3
15	24.0	22.6	23.3	26.2	22.4	24.2	---	---	---	19.6	16.9	18.2
16	24.0	22.1	22.9	26.0	23.3	24.6	---	---	---	20.1	17.6	18.8
17	23.8	21.8	22.7	24.6	22.7	23.5	---	---	---	20.2	17.7	18.8
18	23.0	21.1	22.1	23.3	21.4	22.4	---	---	---	19.7	16.9	18.4
19	23.5	20.7	22.1	22.9	20.0	21.4	---	---	---	19.5	16.3	18.0
20	24.2	21.4	22.7	20.8	19.5	20.3	26.2	16.7	21.4	19.7	16.7	18.2
21	24.7	21.5	23.0	23.2	19.7	21.3	24.3	19.0	22.1	21.7	14.8	18.2
22	24.4	21.7	23.0	---	---	---	23.4	21.2	22.2	19.4	16.2	17.8
23	24.6	21.5	23.0	---	---	---	23.3	21.3	22.2	19.4	15.1	17.8
24	24.9	21.7	23.3	---	---	---	23.6	21.8	22.5	19.5	16.7	18.3
25	24.9	21.9	23.4	---	---	---	22.1	20.3	21.2	20.4	17.0	19.1
26	25.4	22.0	23.7	---	---	---	22.4	19.5	20.9	24.8	16.3	19.9
27	25.8	22.7	24.2	---	---	---	21.8	19.9	20.8	20.7	15.2	19.1
28	25.3	23.4	24.2	---	---	---	21.6	19.3	20.5	19.1	16.9	18.1
29	23.6	22.8	23.1	---	---	---	22.3	19.7	20.9	18.5	15.3	17.2
30	25.2	22.0	23.5	---	---	---	22.8	20.0	21.3	18.6	11.9	16.1
31	---	---	---	---	---	---	23.5	20.5	21.9	---	---	---
MONTH	25.8	17.5	22.1	---	---	---	---	---	---	26.7	11.9	19.4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
FEB , 1987						
23...	1200	5680	3.5	--	200	3070
MAR						
24...	1030	4970	2.0	99	1390	18700
APR						
21...	1030	6560	12.0	99	1660	29400
MAY						
19...	1100	13000	18.0	91	1230	43200
JUN						
26...	1045	3460	22.5	99	107	1000
JUL						
21...	1110	3390	21.0	100	716	6550
AUG						
07...	1130	2970	24.5	100	1130	9060

09317800 ELECTRIC LAKE NEAR SCOFIELD, UT

LOCATION.--Lat 39°36'03", long 111°12'41", in NE¼NE¼SE¼ sec.14, T.14 S., R.6 E., Emery County, Hydrologic Unit 14060009, 25 mi northwest of Huntington, 21 mi east of Fairview.

PERIOD OF RECORD.--November 1973 to current year. Not published prior to 1986. Records available from Utah Power & Light Co.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 28,440 acre-ft Oct. 2, elevation, 8,568.77 ft; minimum, 23,840 acre-ft Apr. 10, elevation, 8,557.33 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28420	27670	27030	26020	25260	24650	24030	24970	27600	27540	e27010	25680
2	28440	27700	27010	26000	25240	24630	24010	25040	27620	27530	e26990	25630
3	28420	27680	26960	25970	25200	24610	e23990	25110	27640	e27530	e26970	25620
4	28400	27600	26920	25940	25190	24580	e23970	25130	27650	e27510	e26960	25580
5	28380	27570	26900	25930	25140	24560	e23940	25270	27660	e27490	e26940	25530
6	28360	27560	26870	25920	25110	24540	e23920	25380	27670	e27480	e26920	25490
7	28340	27550	26830	25900	25090	24520	e23900	25500	27710	e27460	e26900	25450
8	28310	27540	26810	25860	25060	24500	e23880	25600	27720	e27440	e26880	25380
9	28260	27530	26790	25830	25040	24480	e23860	25710	27730	e27420	26850	25290
10	28230	27500	26740	25800	25020	24450	e23840	25810	27740	e27400	26830	25190
11	28220	27480	26700	25780	24990	24440	e23870	25910	27750	e27390	26800	25090
12	28190	27460	26670	25750	24980	24420	23890	26040	27750	e27370	26750	25000
13	28170	27430	26660	25740	24970	24410	23930	26190	27750	e27350	26720	24900
14	28150	27410	26600	25690	24970	24390	23980	26350	27740	e27330	26680	24810
15	28120	27390	26570	25670	24950	24380	24040	26460	27730	e27310	26650	24720
16	28100	27370	26540	25660	24920	24370	24080	26580	27710	e27300	26600	24620
17	28070	27330	26520	25630	24900	24350	24110	26700	27700	e27280	26560	24530
18	28060	27320	26480	25600	24860	24340	24110	26830	27690	e27260	26510	24430
19	28040	27330	26470	25580	24860	24330	24130	26950	27680	e27240	26440	24330
20	28020	27300	26430	25550	24830	24310	24170	27060	27660	e27220	26360	24240
21	27990	27290	26380	25520	24800	24280	24220	27150	27650	e27200	26280	24140
22	27960	27270	26350	25500	24780	24260	24270	27200	27640	e27190	26210	24080
23	27940	27240	26320	25480	24770	24230	24320	27250	27620	e27170	26140	24050
24	27910	27220	26280	25460	24770	24210	24360	27300	27600	e27150	26080	24020
25	27890	27200	26250	25430	24760	24180	24420	27310	27590	e27130	26000	24000
26	27860	27180	26210	25400	24730	24160	24500	27420	27570	e27120	25930	23990
27	27830	27140	26180	25370	24700	24150	24590	27460	27560	e27100	25870	23960
28	27810	27110	26150	25360	24680	24120	24680	27510	27540	e27080	25840	23940
29	27790	27090	26120	25330	---	24100	24760	27540	27560	e27060	25800	23920
30	27770	27060	26080	25310	---	24070	24840	27560	27560	e27050	25780	23890
31	27750	---	26040	25290	---	24040	---	27590	---	e27030	25720	---
MAX	28440	27700	27030	26020	25260	24650	24840	27590	27750	27540	27010	25680
MIN	27750	27060	26040	25290	24680	24040	23840	24970	27540	27030	25720	23890
(#)	8567.16	8565.20	8563.03	8561.12	8559.55	8557.89	8559.97	8566.80	8566.72	8565.44	8562.21	8557.47
(*)	-690	-690	-1020	-750	-610	-640	+800	+2750	-30	-530	-1310	-1830

WTR YR 1987 . . . . . (*) -4550

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

e Estimated.

09317997 HUNTINGTON CREEK NEAR HUNTINGTON, UT

LOCATION.--Lat 39°23'07", long 111°05'15", in SE¼NE¼SW¼, sec.36, T.16 S., R.7 E., Emery County, Hydrologic Unit 14060009, on right bank about 500 ft upstream from bridge to Deer Creek Mine, 8 mi northwest of Huntington.

DRAINAGE AREA.--181 mi^2, approximately.

PERIOD OF RECORD.--October 1979 to current year. Water years 1981-85 not published, records available in office of Utah Power & Light Co., located in Salt Lake City, Ut.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Small transmountain diversions to tributaries of San Pitch River (Sevier Lake Basin). Flow regulated by reservoirs above station.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharage, 1,680 ft^3/s May 24, 1984, gage height, 4.96 ft; minimum, 3.0 ft^3/s Feb. 2-5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 250 ft^3/s Apr. 29, gage height, 2.36 ft; minimum daily discharge, 31 ft^3/s Dec. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	44	44	46	49	52	53	183	153	105	94	64
2	115	43	48	48	49	51	57	164	147	100	90	60
3	101	43	48	45	50	51	60	123	132	95	92	58
4	98	43	48	49	49	52	63	127	131	94	86	57
5	76	43	46	50	50	52	57	135	132	99	57	57
6	71	42	46	46	50	51	55	187	136	98	48	57
7	58	40	45	44	49	50	59	215	149	91	51	65
8	51	39	44	41	50	50	62	205	149	81	46	61
9	56	41	40	36	51	50	63	190	144	80	45	81
10	57	42	46	40	51	46	64	178	133	81	54	82
11	57	41	49	44	50	44	66	172	131	93	56	84
12	57	42	48	43	50	44	61	175	133	97	61	86
13	54	42	49	39	50	45	60	195	133	75	81	84
14	53	44	57	37	52	43	63	172	123	74	85	70
15	54	44	44	35	50	44	77	175	116	69	73	69
16	54	44	35	41	49	43	91	183	110	72	73	73
17	56	44	33	35	46	42	105	176	102	69	71	72
18	64	45	31	40	46	42	115	179	98	64	71	72
19	62	54	35	45	44	42	105	173	92	62	77	73
20	60	48	38	37	43	41	78	159	96	64	79	73
21	57	43	44	41	45	51	74	160	91	71	85	73
22	52	43	39	41	48	43	107	156	96	78	86	89
23	47	41	47	47	46	41	134	175	98	83	84	118
24	47	41	43	48	48	42	150	184	122	83	90	117
25	45	42	39	47	50	40	140	185	131	87	91	116
26	45	40	38	47	49	40	152	184	131	91	83	113
27	44	43	49	45	49	40	170	171	127	100	81	113
28	45	45	47	46	49	43	179	162	126	92	78	111
29	47	46	40	46	---	47	197	155	143	115	74	111
30	44	46	45	46	---	48	198	150	136	99	71	116
31	44	---	40	49	---	50	---	151	---	93	68	---
TOTAL	1895	1298	1345	1346	1362	1420	2915	5299	3741	2655	2281	2475
MEAN	61.1	43.3	43.4	43.4	48.6	45.8	97.2	171	125	85.6	73.6	82.5
MAX	124	54	57	50	52	52	198	215	153	115	94	118
MIN	44	39	31	35	43	40	53	123	91	62	45	57
AC-FT	3760	2570	2670	2670	2700	2820	5780	10510	7420	5270	4520	4910

CAL YR 1986	TOTAL	54797	MEAN	150	MAX	847	MIN	24	AC-FT	108700
WTR YR 1987	TOTAL	28032	MEAN	76.8	MAX	215	MIN	31	AC-FT	55600

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT
(Transmountain diversion)

LOCATION.--Lat 39°19'47", long 111°25'51", in SE¼SE¼SE¼ sec.14, T.17 S., R.4 E., Sanpete County, Hydrologic Unit 14060009, at east tunnel portal, 9.0 mi east of Ephraim.

PERIOD OF RECORD.--September 1939 to current year. Monthly discharge only for September 1949 to September 1960; figures of daily discharge available in Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 9,694.9 ft NGVD of 1929. (Levels by U.S. Geological Survey, Topographic Division.)

REMARKS.--Records poor. Flow is seasonal. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s June 6, 1964, gage height, 5.43 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 14 ft³/s June 7; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.00	e4.5	e9.0	e1.6	e.25	e.05
2	---	---	---	---	---	---	.00	e4.0	e11	e1.5	e.23	e.04
3	---	---	---	---	---	---	.00	e3.5	e13	e1.4	e.22	e.05
4	---	---	---	---	---	---	.03	e3.5	e12	e1.2	e.22	e.04
5	---	---	---	---	---	---	.00	e3.8	e12	e1.1	e.17	e.04
6	---	---	---	---	---	---	.00	e4.6	e13	e1.0	e.18	e.04
7	---	---	---	---	---	---	.00	e6.0	e14	e.98	e.18	e.04
8	---	---	---	---	---	---	.00	e8.0	e11	e.90	e.16	e.04
9	---	---	---	---	---	---	.00	e8.0	e10	e.84	e.16	e.04
10	---	---	---	---	---	---	.00	e8.0	e9.0	e.80	e.16	e.04
11	---	---	---	---	---	---	.00	e8.0	e7.9	e.79	e.14	e.04
12	---	---	---	---	---	---	.00	e8.0	e7.0	e1.2	e.14	e.02
13	---	---	---	---	---	---	.00	e8.0	e6.0	e.70	e.14	e.02
14	---	---	---	---	---	---	.00	e8.0	e5.0	e.62	e.09	e.02
15	---	---	---	---	---	---	.00	e8.0	e5.0	e.58	e.09	e.01
16	---	---	---	---	---	---	e.07	e8.0	e5.0	e.54	e.07	.00
17	---	---	---	---	---	---	e.25	e8.0	e4.5	e.54	e.07	.00
18	---	---	---	---	---	---	e.60	e8.0	e4.3	e.50	e.07	.00
19	---	---	---	---	---	---	e1.3	e8.0	e3.5	e.50	e.07	.00
20	---	---	---	---	---	---	e1.2	e7.6	e3.0	e.52	e.07	.00
21	---	---	---	---	---	---	e1.3	e7.6	e2.7	e.52	e.07	.00
22	---	---	---	---	---	---	e1.5	e7.4	e2.5	e.40	e.07	.00
23	---	---	---	---	---	---	e2.5	e7.4	e2.4	e.35	e.08	.00
24	---	---	---	---	---	---	e2.8	e7.2	e2.3	e.30	e.08	.00
25	---	---	---	---	---	---	e3.0	e7.0	e2.2	e.33	e.09	.00
26	---	---	---	---	---	---	e3.2	e6.6	e2.0	e.36	e.08	.00
27	---	---	---	---	---	---	e3.5	e6.4	e1.9	e.31	e.06	.00
28	---	---	---	---	---	---	e4.5	e6.0	e1.8	e.33	e.06	.00
29	---	---	---	---	---	---	e5.2	e5.6	e1.8	e.28	e.05	.00
30	---	---	---	---	---	---	e4.7	e5.8	e1.7	e.26	e.05	.00
31	---	---	---	---	---	.00	---	e6.0	---	e.25	e.05	---
TOTAL	---	---	---	---	---	---	35.62	206.5	186.2	21.50	3.62	.53
MEAN	---	---	---	---	---	---	1.19	6.66	6.21	.69	.12	.018
MAX	---	---	---	---	---	---	5.2	8.0	14	1.6	.25	.05
MIN	---	---	---	---	---	---	.00	3.5	1.7	.25	.05	.00
AC-FT	---	---	---	---	---	---	71	410	369	43	7.2	1.1

e Estimated

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT
(Transmountain diversion)

LOCATION.--Lat 39°25'34", long 111°21'51", in NW¼SW¼SE¼ sec.16, T.16 S., R.5 E., Sanpete County, Hydrologic Unit 14060009, at west portal of tunnel, 11 mi east of Spring City.

PERIOD OF RECORD.--October 1949 to current year. Monthly discharges only for October 1949 to September 1960. Figures of daily discharge available from Salt Lake City District Office, Geological Survey. Seasonal records only since October 1971.

GAGE.--Water-stage recorder. Datum of gage is 9,838 ft NGVD of 1929. Prior to Aug. 24, 1960, at datum about 0.3 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Tunnel diverts from Cottonwood Creek drainage in Colorado River Basin to San Pitch River in the Great Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 111 ft^3/s July 23, 1985; possibly no flow at times in some years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	6.3	13	3.7	1.8	1.1
2	---	---	---	---	---	---	---	5.4	15	3.6	1.8	1.0
3	---	---	---	---	---	---	---	4.6	18	3.4	1.7	1.0
4	---	---	---	---	---	---	---	4.7	17	3.3	1.7	1.1
5	---	---	---	---	---	---	---	5.9	17	3.1	1.6	.97
6	---	---	---	---	---	---	---	7.5	18	2.9	1.7	1.0
7	---	---	---	---	---	---	---	9.1	22	1.3	1.7	1.0
8	---	---	---	---	---	---	---	11	20	.13	1.6	1.0
9	---	---	---	---	---	---	---	11	17	.13	1.6	.98
10	---	---	---	---	---	---	---	11	16	.45	1.6	.97
11	---	---	---	---	---	---	---	11	15	3.1	1.5	.97
12	---	---	---	---	---	---	---	11	13	3.6	1.5	.95
13	---	---	---	---	---	---	---	11	12	2.7	1.5	1.0
14	---	---	---	---	---	---	---	11	11	2.5	1.4	1.0
15	---	---	---	---	---	---	---	11	11	2.4	1.4	.98
16	---	---	---	---	---	---	---	11	9.1	2.3	1.3	.97
17	---	---	---	---	---	---	---	11	8.1	2.3	1.3	.91
18	---	---	---	---	---	---	e1.0	11	7.5	2.2	1.3	.91
19	---	---	---	---	---	---	1.8	11	7.0	2.2	1.3	.87
20	---	---	---	---	---	---	1.4	10	6.6	2.3	1.3	.85
21	---	---	---	---	---	---	1.5	10	6.2	2.3	1.3	.84
22	---	---	---	---	---	---	2.4	9.9	5.8	2.1	1.3	.83
23	---	---	---	---	---	---	3.4	9.7	5.4	2.0	1.4	.83
24	---	---	---	---	---	---	3.7	9.6	5.1	1.9	1.4	.82
25	---	---	---	---	---	---	3.9	9.5	4.8	2.0	1.6	.83
26	---	---	---	---	---	---	4.4	9.3	4.6	2.1	1.3	.84
27	---	---	---	---	---	---	5.7	8.6	4.4	2.4	1.2	.81
28	---	---	---	---	---	---	6.5	7.4	4.2	2.3	1.2	.81
29	---	---	---	---	---	---	7.3	7.1	4.2	2.4	1.1	.79
30	---	---	---	---	---	---	6.9	7.5	4.0	2.2	1.1	.79
31	---	---	---	---	---	---	---	10	---	2.0	1.1	---
TOTAL	---	---	---	---	---	---	---	284.1	322.0	71.31	44.6	27.72
MEAN	---	---	---	---	---	---	---	9.16	10.7	2.30	1.44	.92
MAX	---	---	---	---	---	---	---	11	22	3.7	1.8	1.1
MIN	---	---	---	---	---	---	---	4.6	4.0	.13	1.1	.79
AC-FT	---	---	---	---	---	---	---	564	639	141	88	55

e Estimated

09323900 JOES VALLEY RESERVOIR NEAR ORANGEVILLE, UT

LOCATION.--Lat 39°17'20", long 111°16'10", in NW¼NE¼ sec.5, T.18 S., R.6 E., Emery County, Hydrologic Unit 14060009, on Seeley Creek 5.2 mi upstream from Cottonwood Creek, and 12.6 mi west of Orangeville.

DRAINAGE AREA.--146 mi^2.

PERIOD OF RECORD.--November 1965 to current year.

GAGE.--Mercury gage in control house at downstream end of outlet tunnel. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam. Storage began Nov. 3, 1965. Usable capacity, 54,610 acre-ft between elevations 6,910.0 and 6,989.7 ft above mean sea level. Dead storage, 870 acre-ft between elevations 6,817.0 and 6,866.5 ft. Inactive storage, 8,980 acre-ft between elevations 6,866.5 and 6,910.0 ft. Figures given herein represent total contents. Water is used for irrigation. Huntington North Reservoir, a small off-channel reservoir near Huntington, is operated in conjunction with Joes Valley Reservoir; records not included.

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 66,030 acre-ft June 20, 21, 1983; minimum observed since reservoir was first filled, 7,710 acre-ft Oct. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 63,170 acre-ft June 11, 14, 15, elevation, 6,990.3 ft; minimum observed, 46,280 acre-ft, Sept. 30, elevation, 6,974.6 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*47,640	-
Oct. 31	-	*46,760	-880
Nov. 30	6,975.4	47,050	+290
Dec. 31	-	*46,860	-190
CAL YR 1986	-	-	+1,250
Jan. 31	-	*46,660	-200
Feb. 28	-	*46,470	-190
Mar. 31	6,974.7	46,370	-100
Apr. 30	-	*50,250	+3,880
May 31	-	*61,420	+11,170
June 30	-	*59,580	-1,840
July 31	6,982.9	54,780	-4,800
Aug. 31	6,979.2	50,870	-3,910
Sept. 30	6,974.6	46,280	-4,590
WTR YR 1987	-	-	-1,360

* No gage reading, contents interpolated.

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT

LOCATION.--Lat 39°06'15", long 111°12'57", in NE¼SE¼SW¼ sec.2, T.20 S., R.6 E., Emery County, Hydrologic Unit 14060009, on right bank 1.8 mi upstream from Dry Wash and 4.5 mi west of Ferron.

DRAINAGE AREA.--138 mi^2.

PERIOD OF RECORD.--May 1911 to September 1923, October 1947 to current year. Monthly discharge only for some periods, published in WSP 1313. Records for station at site 2 mi downstream published as Ferron Creek near Ferron, Apr. 1909 to Oct. 1911, not equivalent because of diversions 1.5 mi downstream from present site.

REVISED RECORDS.--WSP 1243: 1951(P). WSP 1313: 1920(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,210 ft from topographic map. May 6, 1911 to Sept. 30, 1923, nonrecording gages in vicinity of present site at different datums. Dec. 19, 1947 to Sept. 30, 1966, at site 1.5 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Slight regulation by small reservoir above station (capacity not known). Small diversions above station for irrigation, including a transmountain diversion to tributary of San Pitch River (Sevier Lake basin). Greater part of flow diverted during irrigation season by Upper North and Upper South Canals, 1.5 mi below station.

AVERAGE DISCHARGE.--52 years, 69.4 ft^3/s, 50,280 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,180 ft^3/s Aug. 27, 1952, gage height, 9.71 ft, site and datum then in use, from rating table extended above 400 ft^3/s on basis of slope-area measurements at gage heights 8.70 ft and 9.71 ft; site and datum then in use; no flow Oct. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	2230	*496	*5.48				

Minimum daily, 6.0 ft^3/s Jan. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	e14	e11	e8.0	e9.0	17	200	168	55	25	15
2	36	18	e15	e12	e8.0	e10	22	176	161	52	23	19
3	25	17	e16	e12	e8.0	e11	24	133	161	49	23	16
4	22	16	e15	e11	e8.0	e12	24	126	160	47	23	16
5	22	17	e15	e11	e9.0	e13	20	144	157	45	21	16
6	23	16	e13	e10	e9.0	14	21	178	157	43	22	15
7	22	14	e12	e10	e10	15	29	220	159	42	32	17
8	21	e15	e13	e9.0	e10	15	39	238	162	40	28	16
9	21	e16	e15	e8.0	e10	16	38	244	154	39	23	15
10	21	e16	e11	e9.0	e10	14	40	237	148	38	23	14
11	21	e17	e9.0	e9.0	e11	14	49	222	141	38	21	14
12	23	e16	e9.0	e10	e10	13	38	240	133	45	20	14
13	21	17	e10	e10	e9.4	16	25	325	127	36	21	27
14	22	17	e10	e10	e9.0	13	48	330	121	33	23	28
15	21	16	e11	e9.0	e9.0	14	76	353	117	31	20	16
16	21	16	e10	e8.0	e9.0	13	100	370	112	30	19	14
17	21	16	e11	e7.0	e9.0	13	116	329	104	32	18	14
18	24	16	e12	e7.0	e9.0	13	111	301	98	29	17	13
19	22	17	e11	e7.0	e9.0	13	80	277	93	27	17	13
20	20	16	e11	e7.0	e8.0	12	49	246	89	28	17	13
21	19	15	e12	e6.0	e8.0	e14	51	223	84	33	18	13
22	19	e13	e12	e6.0	e7.0	13	78	199	79	29	25	13
23	18	e12	e12	e6.0	e7.0	12	111	186	76	26	20	13
24	18	e14	e12	e6.0	e8.0	11	119	180	71	25	22	13
25	18	e16	e11	e7.0	e7.0	11	118	171	67	24	21	13
26	17	e13	e11	e7.0	e8.0	11	147	170	65	27	22	13
27	18	e16	e12	e8.0	e8.0	11	163	166	62	26	18	13
28	18	e16	e12	e8.0	e8.0	e12	186	158	61	26	17	13
29	18	e16	e12	e8.0	---	e11	209	148	61	29	16	12
30	18	e15	e12	e8.0	---	e12	211	145	61	38	16	12
31	17	---	e12	e8.0	---	12	---	159	---	29	15	---
TOTAL	648	473	373.0	265.0	243.4	393.0	2359	6794	3409	1091	646	453
MEAN	20.9	15.8	12.0	8.55	8.69	12.7	78.6	219	114	35.2	20.8	15.1
MAX	36	18	16	12	11	16	211	370	168	55	32	28
MIN	17	12	9.0	6.0	7.0	9.0	17	126	61	24	15	12
AC-FT	1290	938	740	526	483	780	4680	13480	6760	2160	1280	899

CAL YR 1986 TOTAL 32141.5 MEAN 88.1 MAX 821 MIN 5.0 AC-FT 63750
WTR YR 1987 TOTAL 17147.4 MEAN 47.0 MAX 370 MIN 6.0 AC-FT 34010

e Estimated

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT

LOCATION.--Lat 38°51'30", long 110°22'10", in SE¼SE¼NW¼ sec.34, T.22 S., R.14 E., Emery County, Hydrologic Unit 14060009, on left bank 300 ft upstream from bridge on State Highway 24, 14.0 mi southwest of Green River, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--1,628 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to September 1918, September 1919 to July 1920 (gage heights only), October 1945 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,190 ft from topographic map. May 5, 1909 to Sept. 10, 1918, staff gage, and Sept. 10, 1919 to July 10, 1920, tape-weight gage. Nov. 29, 1945 to July 7, 1978, water-stage recorder at various sites and datums about 1 mi upstream.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 42,000 acres. Several small transmountain diversions from tributaries for irrigation in Sevier Lake basin, and some storage since Nov. 3, 1965, in Joes Valley Reservoir (see station 09323900).

AVERAGE DISCHARGE.--51 years (1909-18, 1945-87), 160 ft³/s, 115,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,000 ft³/s, Sept. 2, 1909, gage height, 12.7 ft, site and datum then in use, from rating curve extended above 3,100 ft³/s; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
July 31	1445	2,480	9.97	Aug. 25	1530	*2,570	*10.08

Minimum discharge, 15 ft³/s Sep. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	87	80	e31	e46	58	45	27	241	135	e310	50
2	106	72	81	e35	e47	62	47	29	222	76	e190	45
3	412	72	67	e34	e43	65	45	29	219	50	e80	39
4	217	70	69	e32	e45	67	47	29	205	39	e45	38
5	158	69	78	e34	e47	70	53	29	199	32	e40	38
6	109	71	79	e32	e48	70	62	25	208	29	e60	35
7	98	70	78	e32	e46	70	66	24	231	26	e80	34
8	92	70	78	e31	e47	69	93	21	252	26	e48	34
9	93	69	81	e31	e52	70	63	21	292	22	e40	33
10	88	65	e70	e31	e55	70	64	25	342	23	e33	32
11	203	63	e54	e30	75	72	58	23	136	24	e32	29
12	158	64	e51	e30	72	66	57	30	110	40	e32	20
13	102	68	e50	e27	77	58	55	31	90	30	e33	20
14	89	71	e54	e26	85	52	51	29	79	34	e32	32
15	90	74	e50	e23	93	52	41	33	77	32	e33	39
16	91	76	e48	e22	99	59	38	40	70	25	e33	53
17	90	77	e45	e21	87	78	47	46	65	24	e33	42
18	89	79	e44	e21	74	97	46	237	59	22	e32	36
19	94	78	e41	e22	70	85	45	418	55	20	28	33
20	94	77	e38	e21	75	77	40	495	48	21	26	31
21	97	79	e34	e21	73	71	37	440	44	26	24	32
22	96	81	e32	e20	67	66	37	441	45	30	27	33
23	94	75	e30	e19	67	63	33	365	44	42	81	31
24	89	73	e34	e23	67	64	30	310	43	40	141	31
25	94	70	e33	e28	71	64	28	305	36	30	1170	31
26	94	70	e32	e35	e67	62	32	298	35	25	901	32
27	93	72	e30	e41	59	57	36	305	36	41	315	31
28	95	71	e31	e43	56	55	27	363	34	149	120	30
29	91	70	e31	e42	---	52	24	332	37	105	85	30
30	89	75	e30	e40	---	54	26	298	69	764	69	30
31	89	---	e29	e45	---	48	---	275	---	1230	58	---
TOTAL	3595	2178	1582	923	1810	2015	1373	5371	3623	3212	4311	1024
MEAN	116	72.6	51.0	29.8	64.6	65.0	45.8	173	121	104	139	34.1
MAX	412	87	81	45	99	97	93	495	342	1230	1170	53
MIN	88	63	29	19	43	48	24	21	34	20	24	20
AC-FT	7130	4320	3140	1830	3590	4000	2720	10650	7190	6370	8550	2030

CAL YR 1986 TOTAL 74912 MEAN 205 MAX 2300 MIN 29 AC-FT 148600
WTR YR 1987 TOTAL 31017 MEAN 85.0 MAX 1230 MIN 19 AC-FT 61520

e Estimated

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1948 to September 1949, October 1950 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July to September 1949, November 1950 to September 1962, October 1964 to September 1979, daily, October 1979 to September 1980, March 1982 to current year.
WATER TEMPERATURES: July to September 1949, October 1950 to September 1962, October 1964 to September 1978.
SUSPENDED-SEDIMENT DISCHARGE: March 1948 to September 1949, October 1950 to September 1959.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily (water years 1949, 1951-70, 1974-76), 7,230 microsiemens July 15, 1954, and June 29, 1977; minimum daily (water years 1949, 1951-76), 689 microsiemens June 29, 1957.
WATER TEMPERATURES: Maximum (water years 1949, 1951-61, 1966-76), 35.0°C July 11, 1954; minimum, 0.0°C on many days during winter period each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 3,950 microsiemens May 13; minimum, 1,590 microsiemens Dec. 2.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)
OCT , 1986										
23...	1400	97	2960	8.30	16.0	11.5	9.0	655	920	690
NOV										
18...	1300	79	2770	8.30	11.5	4.5	11.3	651	930	660
FEB , 1987										
25...	1300	62	2720	8.30	5.5	4.0	12.4	650	850	570
APR										
22...	1330	37	2580	8.40	19.0	16.5	8.0	656	880	620
MAY										
20...	1400	537	2710	8.10	22.5	17.5	7.7	650	720	530
JUN										
30...	1310	36	2660	8.20	29.5	25.5	6.8	657	920	690
JUL										
24...	1300	39	2770	8.30	32.5	24.5	6.7	657	1000	820
AUG										
18...	1330	32	3060	8.30	37.5	24.0	6.7	660	940	730
31...	1230	58	2810	8.30	30.5	20.5	7.4	661	1000	810

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WH WAT TOTAL FIELD MG/L AS HCO3	CAR-BONATE WH WAT TOTAL FIELD MG/L AS CO3	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT , 1986										
23...	170	120	310	42	5	7.0	280	--	225	1400
NOV										
18...	190	110	310	42	5	6.1	330	--	270	1400
FEB , 1987										
25...	160	110	310	44	5	6.2	320	10	280	1200
APR										
22...	170	110	300	42	5	7.2	300	10	260	1300
MAY										
20...	150	85	360	52	6	8.4	230	0	192	--
JUN										
30...	170	120	340	44	5	8.6	280	0	229	1400
JUL										
24...	180	140	340	42	5	7.9	240	22	203	1500
AUG										
18...	180	120	360	45	5	9.0	230	10	212	1900
31...	240	100	330	41	5	9.8	240	0	200	1600

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
OCT , 1986										
23...	39	0.30	6.0	2320	2200	3.2	608	<0.100	0.100	0.040
NOV										
18...	47	0.30	7.0	2320	2200	3.2	495	0.400	0.390	0.060
FEB , 1987										
25...	44	0.30	6.7	2290	2000	3.1	383	0.400	0.390	0.110
APR										
22...	49	0.30	5.9	2170	2100	3.0	217	<0.100	<0.100	0.080
MAY										
20...	--	0.40	6.3	2210	--	--	--	0.600	0.650	0.170
JUN										
30...	46	0.30	5.3	2430	2200	3.3	238	<0.100	<0.100	0.080
JUL										
24...	46	0.30	4.7	2420	2400	3.3	257	0.100	<0.100	0.040
AUG										
18...	--	0.30	8.7	2640	--	--	--	<0.100	<0.100	0.010
31...	49	0.40	9.3	2450	2500	3.3	384	0.300	0.270	0.050

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT , 1986									
23...	0.050	0.06	1.4	1.4	--	--	0.160	<0.010	--
NOV									
18...	0.060	0.08	0.44	0.50	0.90	4.0	<0.010	0.010	0.03
FEB , 1987									
25...	0.100	0.13	0.79	0.90	1.3	5.8	0.010	0.010	0.03
APR									
22...	0.070	0.09	1.0	1.1	--	--	0.010	<0.010	--
MAY									
20...	0.090	0.12	18	18	19	82	12	0.010	0.03
JUN									
30...	0.070	0.09	0.72	0.80	--	--	0.100	<0.010	--
JUL									
24...	0.030	0.04	0.76	0.80	0.90	4.0	0.090	0.020	0.06
AUG									
18...	0.030	0.04	1.1	1.1	--	--	0.020	0.010	0.03
31...	0.060	0.08	0.75	0.80	1.1	4.9	0.180	0.050	0.15

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
OCT , 1986								
23...	1400	4400	3	<10	<1	10	7	3800

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MOLYBDENUM TOTAL RECOVERABLE (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT , 1986							
23...	<5	210	100	8	10	2	30

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)
NOV , 1986			
18...	1300	5.2	0.2
APR , 1987			
22...	1330	6.0	1.7
AUG			
18...	1330	8.7	1.2

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1986		
23...	1400	250
NOV		
18...	1300	230
FEB , 1987		
25...	1300	180
APR		
22...	1330	210
JUN		
30...	1310	290
JUL		
24...	1300	300
AUG		
18...	1330	340
31...	1230	240

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	2870	---	3750	---	2920	---	---
2	---	---	1590	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	2890	---	2250	---	---	---	---	---	---	---	---
5	---	---	---	---	2100	---	---	---	---	---	---	3150
6	2620	---	---	---	---	2610	---	---	---	2840	2760	---
7	---	---	2570	---	---	---	3180	---	---	---	---	---
8	---	---	---	---	---	---	---	---	2030	---	---	---
9	---	---	---	---	---	---	---	---	1890	---	2820	---
10	---	---	---	---	2470	---	1980	---	1880	---	---	3130
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	2200	---	---	---	---	---	---	3990	---	---	---	---
14	---	---	---	2410	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	2270	---	---	---
16	---	1820	---	---	---	---	---	3810	2320	3060	---	---
17	---	---	---	---	2500	3020	---	---	2320	---	---	---
18	---	2770	---	---	---	---	---	---	---	---	3060	---
19	---	---	---	---	---	---	3070	---	---	---	3020	---
20	---	---	---	---	---	---	---	2710	2570	---	---	---
21	2670	2450	---	---	---	---	---	---	2480	3040	---	3130
22	---	---	---	---	---	---	2630	---	---	---	---	---
23	2960	---	---	---	---	---	---	2030	---	---	---	---
24	---	---	2640	---	2640	---	---	1920	---	2770	---	---
25	---	---	---	2670	2720	---	---	2110	2880	---	---	---
26	---	---	---	---	---	---	---	---	2770	---	---	---
27	---	---	---	---	---	---	3270	---	2680	1740	2000	---
28	---	---	2490	---	---	---	---	---	2940	---	---	---
29	---	---	---	---	---	3270	3740	---	2990	---	---	---
30	---	---	---	---	---	---	---	---	2660	---	2790	---
31	---	---	---	---	---	---	---	---	---	2160	2810	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---

09328500 SAN RAFAEL RIVER NEAR GREEN RIVER, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE WATER (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
FEB , 1987					
25...	1300	62	4.0	385	63
MAR					
27...	1330	56	8.0	672	102
APR					
22...	1330	37	16.5	369	37
MAY					
20...	1400	537	17.5	14800	21500
JUN					
30...	1310	36	25.5	93	9.1
JUL					
24...	1300	39	24.5	165	18
AUG					
18...	1330	32	24.0	398	35
31...	1230	56	20.5	1330	200

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT

LOCATION.--Lat 38°37'40", long 111°38'50", in SE¼SW¼SW¼ sec.13, T.25 S., R.2 E., Sevier County, Hydrologic Unit 14070003, on left bank 0.4 mi upstream from bridge on State Highway 25, about 0.7 mi upstream from Johnson Valley Reservoir, and 3.5 mi northeast of north end of Fish Lake.

DRAINAGE AREA.--24.0 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 9,200 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--23 years, 16.0 ft³/s, 11,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft³/s June 1, 1984, gage height, 4.03 ft; minimum, 1.9 ft³/s Nov. 16, 17, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 1	1920	88	2.30	May 7	2030	*201	*2.93

Minimum daily, 2.5 ft³/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	13	e9.5	e6.4	e3.7	e4.0	e8.0	62	20	11	8.9	7.8
2	19	14	9.9	e6.6	e4.0	e4.5	e10	49	18	11	8.5	7.7
3	17	14	9.8	e7.0	e3.5	e4.5	e9.5	38	17	10	8.7	7.9
4	19	13	9.3	e7.4	e3.5	e4.5	e9.0	46	17	10	8.5	8.0
5	20	13	9.4	e7.4	e3.5	e5.0	e9.0	62	17	9.8	8.1	7.9
6	18	11	9.4	e7.4	e4.0	e4.5	e10	88	18	9.6	8.2	8.3
7	18	e10	9.5	e7.6	e4.5	e5.0	e12	105	19	9.7	13	9.1
8	17	e10	9.3	e7.0	e5.0	e5.4	e15	87	17	9.2	10	8.7
9	16	e9.0	8.1	e6.4	e5.0	e5.0	e16	82	19	9.2	10	8.2
10	15	e9.0	8.8	e5.8	e5.0	e4.5	e17	67	18	8.8	10	8.0
11	15	e9.0	9.1	e6.0	e4.5	e5.0	e18	64	17	11	8.8	7.9
12	16	e11	8.9	e6.2	e4.0	e5.4	e15	66	16	13	8.3	7.9
13	16	e11	8.9	e6.2	e4.5	e6.0	e12	82	15	8.9	8.5	8.4
14	17	e10	8.9	e6.4	e4.5	e5.8	e15	73	15	8.0	8.7	8.5
15	17	e10	8.7	e6.2	e3.5	e6.0	e20	87	14	7.8	7.9	8.1
16	17	e10	8.5	e5.8	e3.2	e5.4	e25	76	14	8.3	7.9	7.9
17	18	e10	8.4	e5.2	e3.4	e5.0	e27	54	13	9.5	7.9	7.8
18	16	e11	8.5	e4.5	e3.5	e5.6	e29	41	13	8.0	7.7	7.6
19	14	e11	8.5	e4.0	e4.0	e6.2	e23	40	13	7.5	7.8	7.6
20	14	e10	8.6	e3.5	e4.0	e6.0	e17	35	12	9.0	8.1	7.6
21	14	e10	8.5	e2.5	e3.5	e5.5	e19	30	12	11	8.3	7.6
22	14	e10	8.3	e3.0	e3.7	e6.0	e24	27	12	8.6	9.7	7.5
23	13	e11	7.9	e3.5	e3.7	e5.8	e27	26	12	7.8	10	7.5
24	13	e10	7.7	e3.0	e3.5	e7.0	e30	26	11	7.9	9.9	7.5
25	13	e9.5	7.6	e3.5	e3.0	e7.0	e28	25	11	8.1	9.1	7.4
26	13	e9.0	7.6	e4.0	e3.0	e6.8	e35	27	11	9.9	9.0	7.6
27	13	e10	7.6	e3.7	e3.0	e6.5	52	27	11	9.9	8.3	8.4
28	13	e9.5	7.6	e3.9	e3.5	e6.6	48	24	11	9.0	8.0	7.4
29	13	e9.0	e7.4	e3.5	---	e5.8	51	23	11	9.7	7.9	7.1
30	12	e8.5	e7.2	e3.5	---	e7.0	58	31	11	12	7.9	7.4
31	12	---	e7.0	e3.5	---	e7.2	---	23	---	11	7.8	---
TOTAL	477	315.5	264.4	160.6	107.7	175.5	688.5	1593	435	293.2	271.4	236.3
MEAN	15.4	10.5	8.53	5.18	3.85	5.66	22.9	51.4	14.5	9.46	8.75	7.88
MAX	20	14	9.9	7.6	5.0	7.2	58	105	20	13	13	9.1
MIN	12	8.5	7.0	2.5	3.0	4.0	8.0	23	11	7.5	7.7	7.1
AC-FT	946	626	524	319	214	348	1370	3160	863	582	538	469

CAL YR 1986 TOTAL 7236.2 MEAN 19.8 MAX 139 MIN 7.0 AC-FT 14350
WTR YR 1987 TOTAL 5018.1 MEAN 13.7 MAX 105 MIN 2.5 AC-FT 9950

e Estimated

09330000 FREMONT RIVER NEAR BICKNELL, UT

LOCATION.--Lat 38°18'25", long 111°31'03", in SW¼NE¼NW¼ sec.7, T.29 S., R.4 E., Wayne County, Hydrologic Unit 14070003, on left bank at upstream side of county road bridge, 2.9 mi southeast of Bicknell along Highway U-24.

DRAINAGE AREA.--751 mi^2.

PERIOD OF RECORD.--May 1909 to December 1912, published as "near Thurber", October 1937 to September 1958 (1944-46, fragmentary), October 1976 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,970 ft from topographic map. May 1909 to December 1912, staff gage near present site at different datum. October 1937 to June 28, 1949, staff gages on two canals and river station about 0.25 mi downstream at different datums. June 28, 1949 to Apr. 29, 1958, water-stage recorders replaced staff gages on river and canal site using same datum. Apr. 29 to Sept. 30, 1958, staff gage on river at site 600 ft farther downstream from water-stage recorder at datum 1.67 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 10,600 acres above station. Flow regulated by Fish Lake and Johnson, Forsythe, and Mill Meadow Reservoirs.

AVERAGE DISCHARGE.--32 years (1909-12, 1937-43, 1946-58, 1976-87), 90.6 ft^3/s, 65,640 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft^3/s Apr. 5, 1942, gage height, 5.8 ft, site and datum in use (from floodmarks), from rating curve extended above 700 ft^3/s; minimum observed, 18 ft^3/s June 2, 4, 13-15, 17, 18, 1912.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft^3/s Apr. 17, gage height, 3.59 ft; minimum discharge, 31 ft^3/s June 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	195	94	e68	e100	e105	120	274	91	55	109	47
2	e130	207	100	e70	e98	e115	198	253	86	58	99	53
3	e130	196	100	e71	e96	e125	288	200	85	55	97	58
4	e110	182	99	e76	e100	153	345	172	87	53	88	60
5	e105	172	102	e79	e100	159	233	157	85	58	73	59
6	e110	158	109	e74	e105	188	281	139	77	63	78	64
7	e105	145	116	e76	e110	212	255	121	86	64	93	73
8	e100	119	104	e76	e105	241	329	106	87	65	113	67
9	e100	106	e94	e62	e105	276	550	106	92	63	100	70
10	e100	128	e80	e70	e100	164	592	91	88	63	87	68
11	e119	123	e89	e80	e105	131	661	86	83	65	79	63
12	e130	129	e88	e74	e108	121	678	91	85	83	77	62
13	e130	127	e92	e94	e105	160	356	99	82	74	77	74
14	e115	128	e90	e96	e105	150	301	99	84	69	76	91
15	126	126	e93	e98	e100	130	651	152	88	69	72	84
16	130	125	e95	e87	e100	124	798	128	84	72	67	81
17	141	124	e94	e90	e102	125	e813	117	85	71	67	80
18	148	126	e98	e95	e100	125	e796	120	82	73	68	78
19	147	130	e100	e90	e98	117	e570	129	81	72	63	76
20	154	107	e102	e88	e100	111	328	137	80	78	62	75
21	156	105	e97	e65	e102	113	260	139	79	97	73	74
22	152	100	e95	e60	e104	122	289	139	75	83	80	73
23	154	96	e90	e70	e110	125	367	126	74	83	106	73
24	151	98	e88	e80	e100	121	389	117	81	81	118	70
25	148	102	e78	e85	e92	121	389	117	80	89	82	70
26	149	102	e78	e86	e90	111	352	129	78	103	63	72
27	150	97	e66	e88	e92	113	279	137	79	90	56	81
28	152	100	e65	e90	e94	107	292	111	81	90	52	78
29	155	107	e74	e92	---	108	307	105	78	85	48	74
30	155	98	e66	e90	---	121	284	116	63	85	48	71
31	170	---	e70	e95	---	109	---	103	---	98	47	---
TOTAL	4112	3858	2806	2515	2826	4303	12351	4120	2466	2307	2418	2119
MEAN	133	129	90.5	81.1	101	139	412	133	82.2	74.4	78.0	70.6
MAX	170	207	116	98	110	276	813	274	92	103	118	91
MIN	90	96	65	60	90	105	120	86	63	53	47	47
AC-FT	8160	7650	5570	4990	5610	8530	24500	8170	4890	4580	4800	4200

CAL YR 1986 TOTAL 37411 MEAN 102 MAX 239 MIN 34 AC-FT 74200
WTR YR 1987 TOTAL 46201 MEAN 127 MAX 813 MIN 47 AC-FT 91640

e Estimated

09330230 FREMONT RIVER NEAR CAINEVILLE, UT

LOCATION.--Lat 38°16'40", long 111°04'00", in NE¼NE¼NE¼ sec.20, T.29 S., R.8 E., Wayne County, Hydrologic Unit 14070003, on right bank 2.0 mi downstream from Pleasant Creek, 4.5 mi southwest of Caineville, and 9.8 mi east of Fruita, Utah.

DRAINAGE AREA.--1,208 mi².

PERIOD OF RECORD.--March 1967 to current year.

GAGE.--Water-stage recorder and bubble gage. Altitude of gage is 4,750 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--20 years, 78.1 ft³/s, 56,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s July 24, 1984, gage height, 10.20 ft, from rating curve extended above 4,000 ft³/s on basis of slope-conveyance study; minimum discharge, 10 ft³/s June 9, 1981, July 31, Aug. 1, 1986.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 12	2230	777	3.29	July 27	2230	1,220	4.10
Apr. 17	0200	807	3.34	Aug. 7	0100	*2,110	*5.16
July 21	2130	591	3.11	Aug. 25	1830	844	3.52

Minimum discharge, 24 ft³/s July 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	158	104	103	e110	e120	135	e230	104	47	81	59
2	110	181	106	105	e108	e150	157	e210	100	45	71	60
3	109	166	105	104	e106	136	199	e150	97	42	68	72
4	87	152	105	100	e110	141	256	e120	101	37	62	73
5	84	144	108	104	e110	147	259	e110	110	32	53	79
6	91	139	111	99	e115	154	213	e90	104	34	52	89
7	87	127	119	101	e120	184	255	e70	90	32	220	e100
8	80	124	112	104	e115	196	247	e60	94	28	120	e90
9	80	109	99	82	e115	232	376	e60	99	26	146	e95
10	79	117	85	102	e110	201	524	e50	89	26	110	e90
11	95	122	94	105	e115	144	594	e49	80	27	74	e80
12	111	123	103	110	e118	138	671	47	66	51	64	e75
13	111	124	97	109	e115	142	552	42	61	46	71	e70
14	99	124	106	104	e115	152	308	47	60	34	73	e80
15	97	125	103	112	e110	138	424	62	58	31	56	e160
16	102	123	104	102	e110	133	651	198	59	49	46	e90
17	106	125	101	114	e110	130	620	139	56	40	42	e70
18	114	125	105	e115	e110	134	395	135	56	34	39	e64
19	114	130	111	e110	e108	132	237	125	57	30	37	e60
20	114	120	114	e105	e112	127	e220	124	59	33	32	58
21	120	114	108	e80	e115	122	e210	123	53	90	44	56
22	117	112	100	e70	e118	129	e240	125	49	75	69	54
23	115	108	101	e80	e120	129	e320	124	44	43	77	56
24	114	108	98	e90	e110	138	e340	118	42	44	125	57
25	110	109	98	e96	e102	134	e340	107	42	42	207	53
26	107	113	93	e97	e100	131	e300	120	53	106	114	57
27	106	108	99	e98	e105	124	e230	141	64	140	87	59
28	107	108	101	e100	e105	123	e250	128	56	136	81	61
29	108	111	96	e102	---	121	e260	123	55	108	73	52
30	109	109	101	e100	---	121	e240	119	53	120	66	52
31	112	---	96	e108	---	131	---	114	---	87	63	---
TOTAL	3166	3758	3183	3111	3117	4434	10023	3460	2111	1715	2523	2171
MEAN	102	125	103	100	111	143	334	112	70.4	55.3	81.4	72.4
MAX	120	181	119	115	120	232	671	230	110	140	220	160
MIN	71	108	85	70	100	120	135	42	42	26	32	52
AC-FT	6280	7450	6310	6170	6180	8790	19880	6860	4190	3400	5000	4310

CAL YR 1986 TOTAL 34688 MEAN 95.0 MAX 750 MIN 12 AC-FT 68800
WTR YR 1987 TOTAL 42772 MEAN 117 MAX 671 MIN 26 AC-FT 84840

e Estimated

09330410 BULL CREEK NEAR HANKSVILLE, UT

LOCATION.--Lat 38°07'19", long 110°45'32", in SE¼NE¼SW¼ sec.12, T.31 S., R.10 E., Garfield County. Hydrologic Unit 14070003, on left bank 1 mi downstream from BLM recreation area "Lonesome Beaver Campground" and 21 mi south of Hanksville.

DRAINAGE AREA.--7.53 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to current year.

REVISED RECORDS.--WDR UT-85-1: 1984(M).

GAGE.--Water-stage recorder. Altitude of gage is 7,600 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 200 ft^3/s, Aug. 5, 1983, gage height, 3.70 ft; minimum daily, 0.03 ft^3/s March 28, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19 ft^3/s May 15, gage height, 1.44 ft; minimum daily discharge, 0.20 ft^3/s Jan. 18, 20

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	.72	e.46	e.37	e.35	e.33	.62	8.1	8.0	3.6	1.3	.85
2	.95	.75	e.45	e.39	e.35	e.34	.65	8.6	8.2	3.5	1.3	.84
3	.88	.80	e.46	e.33	e.36	e.34	.67	8.5	8.8	3.2	1.2	.84
4	.83	.78	e.44	e.34	e.42	e.35	.71	7.6	9.6	3.1	1.2	.82
5	.84	.76	e.48	e.36	e.40	e.36	.70	7.3	9.9	2.9	1.2	.82
6	.76	.73	e.51	e.34	e.40	e.37	.68	7.6	10	2.7	1.2	.84
7	.77	e.60	e.50	e.30	e.39	e.36	.79	8.4	11	2.7	1.2	.82
8	.72	.45	e.45	e.28	e.39	e.38	.82	9.1	11	2.6	1.1	.74
9	.72	e.40	e.37	e.29	e.40	e.39	.91	9.6	10	2.3	1.1	.70
10	.74	.48	e.32	e.25	e.37	e.37	1.1	9.9	9.7	2.3	1.0	.70
11	.72	.59	e.35	e.30	e.41	e.38	1.2	10	9.3	2.2	.99	.70
12	.69	.67	e.35	e.30	e.42	e.37	1.3	11	8.8	2.0	.96	.69
13	.79	.65	e.35	e.29	e.41	e.38	1.4	12	8.4	1.9	.99	.88
14	.87	.64	e.40	e.31	e.40	e.36	1.5	13	8.2	1.9	.96	.61
15	.83	.66	e.40	e.27	e.36	e.40	1.8	15	8.0	1.8	.91	.54
16	.84	.67	e.46	e.30	e.38	e.39	2.2	17	7.6	1.8	.90	.53
17	.84	.70	e.45	e.22	e.39	e.41	3.0	17	7.3	1.7	.85	.53
18	.85	.82	e.46	e.20	e.36	e.40	3.8	16	6.9	1.7	.85	.53
19	.86	.77	e.47	e.21	e.35	e.39	4.3	16	6.5	1.6	.82	.54
20	.82	.67	e.47	e.20	e.39	e.38	4.2	16	6.2	1.6	.79	.55
21	.63	.70	e.48	e.21	e.38	e.36	3.9	14	5.9	1.6	.75	.53
22	.70	.66	e.45	e.21	e.38	.34	3.8	13	5.5	1.5	.96	.54
23	.70	.48	e.42	e.24	e.42	.44	4.2	13	5.3	1.4	1.3	.53
24	.70	e.48	e.43	e.25	e.37	.53	4.6	13	5.1	1.4	1.1	.53
25	.70	e.47	e.41	e.27	e.38	.49	5.4	11	4.8	1.3	1.2	.53
26	.70	e.52	e.40	e.32	e.37	.47	5.9	10	4.4	1.3	1.0	.53
27	.70	e.47	e.43	e.30	e.37	.49	7.1	9.5	4.3	1.5	.96	.54
28	.70	e.49	e.42	e.35	e.32	.49	6.7	8.8	4.0	1.7	.91	.54
29	.70	e.43	e.38	e.32	---	.46	7.3	8.4	3.9	1.5	.89	.55
30	.74	e.50	e.38	e.32	---	.48	7.9	8.3	3.6	1.5	.84	.54
31	.74	---	e.35	e.36	---	.59	---	8.0	---	1.3	.85	---
TOTAL	23.80	18.57	13.15	9.00	10.67	12.59	89.15	344.7	220.2	63.1	31.58	19.43
MEAN	.77	.62	.42	.29	.38	.41	2.97	11.1	7.34	2.04	1.02	.65
MAX	.95	.82	.51	.39	.42	.59	7.9	17	11	3.6	1.3	.88
MIN	.63	.40	.32	.20	.32	.33	.62	7.3	3.6	1.3	.75	.53
AC-FT	47	37	26	18	21	25	177	684	437	125	63	39

CAL YR 1986 TOTAL 502.61 MEAN 1.38 MAX 17 MIN .13 AC-FT 997
WTR YR 1987 TOTAL 855.93 MEAN 2.35 MAX 17 MIN .20 AC-FT 1700

e Estimated

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	HARD-NESS NONCARB WH WAT TOT FLD MG/L AS CACO3
OCT , 1986									
30...	1100	0.72	440	8.30	12.5	4.5	220	61	61
MAR , 1987									
12...	1300	0.40	960	8.20	13.0	14.0	420	220	220
APR									
02...	1030	0.61	610	8.30	10.0	9.5	310	140	140
MAY									
11...	1500	10	275	8.10	18.0	8.5	140	--	--
JUL									
13...	1330	2.0	410	8.10	21.5	13.5	220	61	61
AUG									
04...	1200	1.4	410	8.30	30.5	12.0	210	50	50
24...	1100	1.1	485	8.20	15.5	10.0	240	130	130

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT , 1986								
30...	69	12	7.8	7	0.2	0.80	161	81
MAR , 1987								
12...	120	30	76	28	2	1.9	199	370
APR								
02...	95	18	20	12	0.5	0.80	175	150
MAY								
11...	46	6.6	4.9	7	0.2	8.6	111	50
JUL								
13...	69	12	8.0	7	0.2	0.70	161	70
AUG								
04...	66	11	7.8	7	0.2	0.70	160	65
24...	73	15	8.0	7	0.2	0.80	118	110

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
OCT , 1986								
30...	2.5	0.10	12	280	0.38	0.55	<0.100	0.020
MAR , 1967								
12...	10	0.30	14	740	1.0	0.80	<0.100	0.026
APR								
02...	5.3	0.30	13	410	0.55	0.67	<0.100	0.005
MAY								
11...	3.0	0.20	11	200	0.27	--	<0.100	0.021
JUL								
13...	2.6	0.20	12	270	0.37	1.4	<0.100	0.013
AUG								
04...	3.4	0.20	12	260	0.36	0.97	<0.100	0.049
24...	2.2	0.20	12	290	0.40	0.88	<0.100	0.040

09330410 BULL CREEK NEAR HANKSVILLE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	BORON, DIS- SOLVED (UG/L AS B)
OCT , 1986		
30...	1100	30
MAR		
12...	1300	80
APR		
02...	1030	40
MAY		
11...	1500	20
JUL		
13...	1330	20
AUG		
04...	1200	30
24...	1100	30

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE WATER (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM
OCT , 1986							
30...	1100	0.72	4.5	45	0.09	91	--
MAR , 1987							
12...	1300	0.40	14.0	110	0.12	96	--
MAY							
11...	1500	10	8.5	374	11	--	16
JUL							
13...	1330	2.0	13.5	7	0.04	--	--
AUG							
04...	1200	1.4	12.0	34	0.13	98	--
24...	1100	1.1	10.0	462	1.4	--	--

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM
OCT , 1986							
30...	--	--	--	--	--	--	--
MAR , 1987							
12...	--	--	--	--	--	--	--
MAY							
11...	25	50	72	76	84	92	96
JUL							
13...	--	--	--	--	--	--	--
AUG							
04...	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--

09330500 MUDDY CREEK NEAR EMERY, UT

LOCATION.--Lat 38°58'55", long 111°14'55", in NE¼NW¼NE¼ sec.21, T.21 S., R.6 E., Emery County, Hydrologic Unit 14070002, on left bank 100 ft upstream from Emery Canal and 4.1 mi north of Emery.

DRAINAGE AREA.--105 mi^2.

PERIOD OF RECORD.--April to July 1909, July 1910 to July 1914, June 1949 to current year.

REVISED RECORDS.--WSP 1633: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map. Apr. 29 to July 31, 1909, reference point. July 23, 1910 to July 16, 1914, staff gages, at sites about 1 mi upstream at different datums. June 29, 1949 to May 1, 1957, water-stage recorder at site 100 ft upstream at datum 2.89 ft higher prior to Mar. 20, 1953, and at datum 1.89 ft higher thereafter.

REMARKS.--Records good except for estimated daily discharges, which are poor. One small diversion for irrigation and two storage reservoirs (total capacity 700 acre-ft) above station.

AVERAGE DISCHARGE.--41 years (1910-13, 1949-87), 40.6 ft^3/s, 29,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s May 10, 1952, gage height, 11.14 ft, present datum from rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow; no flow Apr. 13-16, 1911.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 14	2000	*159	*2.67				

Minimum discharge, 7.6 ft^3/s Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	21	e13	e13	e10	e12	e21	62	65	40	31	19
2	45	22	e15	e14	e10	e13	e30	58	63	39	30	18
3	31	22	e16	e14	e10	e15	e33	50	63	40	30	18
4	29	22	e16	e13	e10	e16	e30	50	63	39	29	18
5	24	23	e15	e13	e11	18	e26	53	64	39	28	18
6	23	23	e14	e12	e11	15	e30	56	66	38	29	18
7	23	18	e13	e11	e12	16	e40	61	67	37	28	18
8	22	e20	e14	e10	e12	18	e49	62	68	36	23	18
9	21	e21	e14	e9.0	e12	16	56	62	66	36	23	17
10	22	e21	e14	e11	e12	13	59	61	66	35	22	16
11	22	e19	e10	e11	e13	14	51	63	63	35	21	16
12	23	e16	e9.0	e12	e12	14	40	64	62	36	21	16
13	21	e16	e10	e12	e10	18	35	68	60	32	21	21
14	22	e16	e11	e12	e9.7	14	64	70	60	33	23	19
15	21	e16	e12	e12	e10	14	75	75	59	33	22	15
16	21	16	e11	e11	e10	12	75	78	58	34	22	14
17	21	16	e12	e10	e10	11	69	83	56	33	21	13
18	23	16	e13	e9.0	e10	11	61	80	55	31	21	13
19	21	18	e12	e9.0	e10	e11	49	78	53	31	21	13
20	20	15	e12	e9.0	e9.0	e11	35	77	52	32	21	13
21	20	15	e13	e8.0	e9.0	e13	36	77	51	33	22	13
22	20	14	e13	e8.0	e8.0	e15	46	73	50	31	23	13
23	20	12	e14	e8.0	e8.0	e14	56	72	51	31	22	13
24	20	e14	e14	e8.0	e9.0	e13	56	71	50	34	22	13
25	19	e15	e13	e9.0	e8.0	e13	55	69	49	35	22	12
26	19	e13	e13	e9.0	e9.0	e13	60	72	48	35	23	13
27	20	e15	e14	e10	e9.0	e13	62	75	52	35	21	13
28	20	e15	e14	e10	e10	e15	67	74	53	34	20	12
29	19	e15	e14	e10	---	e14	68	71	53	37	20	12
30	19	e13	e14	e10	---	e15	66	69	51	37	19	12
31	20	---	e14	e10	---	e17	---	66	---	32	19	---
TOTAL	706	518	406.0	327.0	283.7	437	1500	2100	1737	1083	720	457
MEAN	22.8	17.3	13.1	10.5	10.1	14.1	50.0	67.7	57.9	34.9	23.2	15.2
MAX	45	23	16	14	13	18	75	83	68	40	31	21
MIN	19	12	9.0	8.0	8.0	11	21	50	48	31	19	12
AC-FT	1400	1030	805	649	563	867	2980	4170	3450	2150	1430	906

CAL YR 1986 TOTAL 17866.0 MEAN 48.9 MAX 187 MIN 6.0 AC-FT 35440
WTR YR 1987 TOTAL 10274.7 MEAN 28.1 MAX 83 MIN 8.0 AC-FT 20380

e Estimated

09332500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT

LOCATION.--Lat 38°05'39", long 110°24'24", in SE¼SW¼SE¼ sec.20, T.31 S., R.14 E., Garfield County. Hydrologic Unit 14070004, on right bank 0.26 mi upstream from Poison Spring Wash and 25.5 mi south-east of Hanksville.

DRAINAGE AREA.--4,159 mi^2.

PERIOD OF RECORD.--June 1948 to current year. Prior to October 1968 published as "near Hite."

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-80-1: 1979, 1977-79(P).

GAGE.--Water-stage recorder. Altitude of gage is 3,850 ft from topographic map. Prior to July 15, 1964, at site 28 mi downstream at different datum. July 15, 1964 to Dec. 14, 1976, approximately 1,200 ft upstream at datum 4.83 ft higher. Dec. 15, 1976 to Sept. 30, 1980 at site 400 ft upstream at datum 4.28 ft higher.

REMARKS.--Records poor. Many diversions for irrigation above station.

AVERAGE DISCHARGE.--39 years, 104 ft^3/s, 75,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 36,000 ft^3/s Nov. 4, 1957, gage height, 28.1 ft from floodmarks, site and datum then in use, from rating curve extended above 9,000 ft^3/s on basis of slope-area measurement at gage height 20.65 ft; no flow at times many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 30	0745	*2,190	*9.50				

No flow many days in June, July, and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	e180	e125	e80	e70	e200	133	117	109	e25	e1.0	e60
2	97	e190	e130	e84	e78	e210	142	100	98	e40	e1.0	e58
3	e350	e210	132	e86	e80	195	145	89	e90	e45	e1.0	e54
4	e150	e220	136	e84	e84	199	171	85	e88	e30	e1.0	e56
5	e130	e240	131	e86	e86	189	224	71	e70	e8.0	e1.0	e54
6	e120	e220	135	e87	e84	195	247	65	e85	.00	e5.0	e60
7	e115	e190	137	e88	e80	202	215	55	e78	.00	e2.0	e52
8	e130	e160	144	e90	e78	213	227	53	81	.00	e190	e54
9	e115	e150	137	e80	e76	233	211	49	76	.00	e20	e60
10	e110	e140	128	e60	e84	247	281	49	73	.00	e15	e48
11	e100	e115	115	e54	e82	252	392	44	62	.00	e8.0	e54
12	e110	e130	104	e50	e80	177	439	45	e54	.00	e7.0	e58
13	e120	e140	115	e60	e84	150	488	38	e43	.00	e6.0	e52
14	e125	146	120	e60	e90	144	e450	80	35	.00	e6.0	e80
15	e140	145	124	e45	e94	163	325	61	27	e10	e6.0	e100
16	e140	e145	127	e45	e92	175	372	64	23	e23	e7.0	e140
17	e150	e135	128	e47	e86	172	524	127	e7.0	e20	e8.0	e90
18	e160	e140	125	e40	e90	171	590	115	.00	e7.0	e8.0	e60
19	e170	e145	127	e45	e92	168	e640	133	.00	e9.0	e9.0	e50
20	e150	e140	130	e40	e95	176	e490	117	.00	23	e10	e45
21	e160	e145	131	e40	e94	161	e360	97	.00	27	e11	e43
22	e160	e150	126	e40	e92	166	e230	103	.00	25	e17	e40
23	e160	e130	115	e45	e94	158	e180	e90	.00	68	e80	e42
24	e170	e120	112	e45	e98	156	e180	e92	.00	50	e120	e40
25	e170	e120	e105	e50	e110	155	e190	e101	.00	31	e150	e42
26	e175	e120	e105	e50	e120	157	e190	111	.00	e17	e130	e45
27	e160	e130	e100	e56	e150	153	e160	e105	.00	189	e110	e47
28	e160	e140	e96	e65	e180	154	e130	121	.00	130	e100	e44
29	e165	e130	e90	e46	---	144	e110	125	.00	151	e80	e40
30	e170	e120	e86	e60	---	136	e100	111	.00	390	e80	e40
31	e170	---	e82	e62	---	136	---	e114	---	e140	e70	---
TOTAL	4597	4586	3698	1870	2623	5497	8536	2727	1108.00	1451.00	1260.0	1688
MEAN	148	153	119	60.3	93.7	177	285	88.0	36.9	46.8	40.6	56.3
MAX	350	240	144	90	180	252	640	133	109	390	190	140
MIN	95	115	82	40	70	136	100	38	.00	.00	1.0	40
AC-FT	9120	9100	7330	3710	5200	10900	16930	5410	2200	2880	2500	3350

CAL YR 1986 TOTAL 44318.00 MEAN 121 MAX 750 MIN 15 AC-FT 87900
WTR YR 1987 TOTAL 39641.00 MEAN 109 MAX 640 MIN .00 AC-FT 78630

e Estimated

09337000 PINE CREEK NEAR ESCALANTE, UT

LOCATION.--Lat 37°51'45", long 111°38'07", in SW¼NE¼SW¼ sec.12, T.34 S., R.2 E., Garfield County, Hydrologic Unit 14070005, on right bank 0.2 mi upstream from unnamed right bank tributary and 7 mi north of Escalante.

DRAINAGE AREA.--68.1 mi^2.

PERIOD OF RECORD.--July 1950 to September 1955, July 1957 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,400 ft from topographic map.

REMARKS.--Records poor. Several small storage reservoirs above station.

AVERAGE DISCHARGE.--35 years, 5.11 ft^3/s, 3,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,010 ft^3/s Aug. 2, 1967, gage height, 7.72 ft, from rating curve extended above 35 ft^3/s on basis of slope-area measurement at gage height 7.70 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 23	2000	159	3.82	Apr. 28	1930	*217	*4.21
					(result of slope area measurement)		

Minimum daily discharge, 1.3 ft^3/s Nov. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	3.3	2.3	e2.9	e4.4	e5.0	e7.0	44	14	8.7	e5.2	e5.2
2	10	3.1	e2.5	e3.1	e4.1	e5.4	e7.8	34	12	8.2	e5.2	e5.2
3	5.7	3.0	e2.8	e2.9	e3.7	e3.9	e8.6	32	9.7	8.0	e5.3	e5.3
4	4.7	2.7	e2.7	e2.8	e3.6	e3.2	e10	31	8.9	7.8	e5.4	e5.3
5	4.5	2.7	2.7	e2.7	e3.6	e2.8	e9.8	31	8.8	8.0	e5.8	e5.4
6	4.5	2.7	2.4	e2.6	e3.4	e2.7	e11	33	9.2	7.8	e8.0	e5.4
7	4.3	1.4	2.2	e2.5	e3.3	e3.5	e13	27	9.3	7.5	e13	e5.4
8	4.0	1.6	1.8	e2.4	e3.0	e5.0	e12	26	8.5	7.8	e6.4	e5.3
9	3.7	e1.9	e1.8	e2.3	e2.7	e5.2	e12	24	8.9	7.3	e5.6	e5.3
10	3.5	e2.2	e1.8	e2.5	e2.4	e5.1	e11	19	8.5	7.1	e5.5	e5.4
11	4.3	2.4	e1.8	e2.7	e2.6	e4.9	e12	12	8.4	e7.0	e5.3	e5.5
12	4.0	3.1	e1.9	e2.9	e2.7	e5.4	e11	9.5	e7.4	e7.8	e5.3	e5.6
13	3.7	3.0	e2.0	e2.8	e2.6	e5.6	e11	8.8	6.4	e6.4	e5.7	e10
14	3.7	3.0	e2.1	e2.8	e2.2	e6.2	e10	12	6.4	e6.2	e5.4	e8.0
15	3.7	3.0	e2.3	e2.9	e2.3	e6.7	e10	17	6.2	e6.0	e5.4	e6.6
16	3.5	2.7	e2.1	e3.1	e2.5	e6.4	e16	15	6.0	e5.9	e5.4	e5.8
17	3.4	2.4	e2.3	e2.7	e2.6	e6.8	28	14	7.1	e5.8	e5.4	e5.7
18	3.4	3.0	e2.5	e2.4	e2.2	e7.4	53	10	6.9	e5.7	e5.4	e5.5
19	3.1	3.0	e2.8	e2.7	e2.5	e6.8	27	11	6.4	5.6	e5.5	e5.4
20	3.1	2.8	e3.5	e2.4	e2.7	e6.4	45	9.2	7.5	5.6	e5.5	e5.3
21	3.0	2.5	e2.6	e2.6	e2.8	e6.0	59	8.9	9.2	5.8	e5.4	e5.2
22	3.0	2.4	e2.5	e2.6	e2.6	e5.7	74	9.1	9.0	6.4	e5.3	e4.9
23	3.0	2.3	e2.4	e2.6	e2.8	e6.2	83	7.2	8.2	5.6	e5.3	e4.8
24	3.0	1.3	e2.4	e2.6	e3.0	e7.0	61	7.1	7.4	5.8	e5.2	e4.6
25	2.9	3.9	e2.4	e2.7	e3.2	e7.7	19	7.6	6.2	24.5	e5.2	e4.5
26	2.7	3.9	e2.5	e2.8	e3.4	e7.5	27	8.2	5.8	7.3	e5.3	e4.3
27	2.7	2.0	e2.6	e2.9	e3.6	e6.8	30	7.8	7.8	11	e5.2	e4.1
28	2.5	2.8	e2.7	e3.0	e4.2	e6.4	77	7.5	8.7	5.8	e5.2	e3.9
29	2.4	3.0	e2.7	e3.2	---	e5.7	70	9.3	9.5	5.0	e5.2	e3.8
30	2.4	2.0	e2.7	e3.7	---	e5.4	43	12	9.5	e5.1	e5.2	e3.7
31	3.3	---	e2.8	e4.0	---	e6.2	---	18	---	e5.2	e5.2	---
TOTAL	120.3	79.1	74.6	86.8	84.7	175.0	868.2	522.2	247.8	227.7	177.4	160.4
MEAN	3.88	2.64	2.41	2.80	3.02	5.65	28.9	16.8	8.26	7.35	5.72	5.35
MAX	10	3.9	3.5	4.0	4.4	7.7	83	44	14	24	13	10
MIN	2.4	1.3	1.8	2.3	2.2	2.7	7.0	7.1	5.8	5.0	5.2	3.7
AC-FT	239	157	148	172	168	347	1720	1040	492	452	352	318

CAL YR 1986 TOTAL 1778.5 MEAN 4.87 MAX 24 MIN 1.1 AC-FT 3530
WTR YR 1987 TOTAL 2824.2 MEAN 7.74 MAX 83 MIN 1.3 AC-FT 5600

e Estimated

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE¼NW¼SE¼ sec.9, T.35 S., R.3 E., Garfield County, Hydrologic Unit 14070005, on left bank 150 ft downstream from Pine Creek and 2 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage, 5,670 ft from topographic map. Prior to Apr. 30, 1913, staff gage at approximately same site at different datum.

REMARKS.--Records poor. Diversions above station for irrigation of about 2,300 acres of crop and pastureland.

AVERAGE DISCHARGE.--31 years (1909-12, 1942-55, 1972-87), 15.0 ft³/s, 10,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 540 ft³/s on basis of slope-area measurements at gage heights, 5.50 ft and 7.34 ft from inside gage and 7.59 ft from outside high-water mark; minimum, 0.07 ft³/s Dec. 24, 1978, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 512 ft³/s Aug. 7, gage height 4.40 ft; minimum daily discharge, 0.46 ft³/s Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.0	e5.5	e4.0	e4.0	e17	e8.1	e17	56	e5.2	2.3	18	e2.0
2	e7.6	e5.3	e3.8	e4.4	e16	e20	e19	60	e4.6	2.0	2.1	e2.0
3	e7.2	e5.1	e3.7	e4.2	e12	e13	e21	52	e3.9	1.6	1.7	e1.9
4	e6.0	e5.0	e4.2	e4.1	e5.1	e7.2	21	40	e3.7	1.8	1.5	e1.9
5	e5.8	e5.0	e5.0	e4.3	e5.1	e4.2	20	45	e3.4	1.5	e1.7	e2.2
6	e5.4	e5.0	e4.8	e4.4	e4.8	e2.7	e22	e39	e3.0	1.4	e4.2	e1.9
7	e5.4	e4.9	e4.0	e4.2	e4.8	e7.0	e27	e37	e2.8	3.1	e5.5	e1.8
8	e5.5	e4.8	e3.7	e4.0	e4.2	e8.6	e23	e36	e2.5	3.3	e8.4	e1.9
9	e5.6	e4.7	e3.8	e3.9	e3.6	e8.7	e22	e34	e2.3	1.1	e7.2	e1.9
10	e5.3	e4.9	e3.8	e4.2	e3.1	e8.2	e22	e32	e2.2	1.1	e5.1	e1.9
11	e9.8	e4.9	e3.8	e4.6	e3.1	e8.1	e22	e28	e2.1	1.8	e2.7	e1.8
12	e5.8	e5.2	e3.9	e4.8	e5.1	e7.6	e21	e27	e2.0	2.1	e2.9	1.7
13	e5.3	e5.0	e4.1	e4.7	e4.2	e8.8	e17	e28	e1.9	1.5	e3.6	7.2
14	e5.3	e4.9	e4.4	e4.9	e3.6	e8.4	e17	e29	e1.7	1.0	e2.7	10
15	e5.3	e5.2	e4.6	e5.6	e2.7	9.7	e15	e29	e1.6	1.1	e2.2	7.6
16	e5.2	e5.4	e4.2	e5.1	e2.9	e13	30	e39	e1.6	1.0	1.9	5.4
17	e5.5	e5.6	e4.4	e4.7	e3.4	e10	e42	e34	e1.5	1.3	1.7	5.1
18	e6.2	e6.0	e4.6	e5.0	e2.7	e12	e65	e33	e1.5	1.8	1.7	5.4
19	e5.3	e5.6	e4.7	e4.7	e2.9	e14	e57	e32	e1.5	1.2	.99	3.4
20	e5.1	e5.3	e5.4	e5.2	e3.6	e12	e36	e33	e1.5	1.8	.46	1.9
21	e4.4	e5.2	e4.8	e5.8	e3.9	e11	e42	e32	e1.5	3.6	.89	1.1
22	e5.1	e5.3	e4.3	e6.1	e4.5	e10	e48	e21	e1.4	4.4	2.2	1.1
23	5.4	e4.9	e4.2	e7.0	e3.1	e9.8	e53	e19	e1.4	2.0	e2.0	1.1
24	5.4	e4.5	e4.2	e6.8	e4.2	e10	e60	e20	e1.2	1.4	e1.9	1.5
25	e5.6	e4.2	e4.1	e7.2	e4.5	e11	e70	e15	1.2	1.2	e1.9	1.0
26	e7.6	e4.4	e4.3	e9.2	e5.1	e17	78	e13	1.2	19	e1.9	1.0
27	6.8	e4.1	e4.4	e12	e6.1	e13	84	e11	1.3	20	e2.0	1.1
28	e6.8	e4.2	e4.3	e12	e7.6	e12	e96	e9.8	1.4	11	e2.0	1.0
29	e6.0	e4.5	e4.2	e12	---	e10	92	e8.7	1.4	11	e2.0	1.0
30	e5.4	e4.6	e4.0	e12	---	e8.0	70	e7.0	1.6	26	e2.1	1.1
31	e5.3	---	e4.2	e13	---	e13	---	e6.0	---	24	e2.1	---
TOTAL	182.4	149.2	131.9	194.1	148.9	316.1	1229	905.5	64.1	157.4	97.24	79.9
MEAN	5.88	4.97	4.25	6.26	5.32	10.2	41.0	29.2	2.14	5.08	3.14	2.66
MAX	9.8	6.0	5.4	13	17	20	96	60	5.2	26	18	10
MIN	4.4	4.1	3.7	3.9	2.7	2.7	15	6.0	1.2	1.0	.46	1.0
AC-FT	362	296	262	385	295	627	2440	1800	127	312	193	158

CAL YR 1986 TOTAL 2963.13 MEAN 8.12 MAX 130 MIN .89 AC-FT 5880
WTR YR 1987 TOTAL 3655.71 MEAN 10.0 MAX 96 MIN .46 AC-FT 7250

e Estimated

09378170 SOUTH CREEK ABOVE RESERVOIR NEAR MONTICELLO, UT

LOCATION.--Lat 37°50'48", long 109°22'08", in NE¼SW¼SW¼ sec.2, T.34 S., R.23 E., San Juan County, Hydrologic Unit 14080203, 200 ft upstream from west side of reservoir and 2 mi southwest of Monticello, Ut.

DRAINAGE AREA.--8.64 mi^2.

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,170 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 68 ft^3/s Apr. 2, 1986, gage height, 3.02 ft, may have been higher during period prior to recorder-installation; minimum daily, 0.10 ft^3/s Oct. 1-6, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 34 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	1715	*53	*2.56	Aug. 24	0830	45	2.37

Minimum daily discharge, .12 ft^3/s Jan. 19, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	e3.2	e.50	e.21	e.23	e.36	2.2	23	4.6	.96	.32	.27
2	.34	e2.2	e.30	e.22	e.25	e.42	2.8	21	4.9	.86	.28	.23
3	.34	e1.6	e.30	e.17	e.24	e.60	4.7	18	5.1	.75	.28	.23
4	.28	e1.4	e.30	e.21	e.23	.75	4.1	16	5.3	.74	.28	.20
5	.23	e1.2	e.40	e.20	e.25	1.0	3.9	14	5.6	.68	.28	.18
6	.18	1.2	e.50	e.15	e.24	2.0	3.8	13	5.9	.68	.28	.34
7	.14	.99	e.40	e.16	e.25	2.5	5.2	13	5.9	.58	.31	.38
8	e.20	.86	e.40	e.14	e.25	2.2	6.7	13	6.1	.50	.32	.55
9	e.20	.72	e.30	e.14	e.25	1.9	11	13	5.6	.48	.23	.28
10	e.26	.80	e.15	e.20	e.33	1.9	14	13	4.8	.46	.23	.24
11	e1.2	.81	e.20	e.19	e.26	1.9	16	13	4.3	.46	.23	.23
12	e1.1	.81	e.20	e.21	e.33	2.1	13	13	3.8	.45	.23	.25
13	e.70	.75	e.20	e.19	e.33	3.1	9.7	14	3.4	.40	.23	.21
14	e.60	.74	e.21	e.15	e.35	2.5	14	14	3.1	.40	.23	.17
15	e.60	.74	e.21	e.16	e.33	1.9	20	14	2.9	.40	.23	.19
16	e.55	.74	e.22	e.15	e.33	1.5	29	15	2.6	.40	.28	.22
17	e.60	.74	e.22	e.13	e.30	1.4	34	14	2.4	.67	.28	.23
18	e.60	2.9	e.21	e.13	e.29	1.9	31	13	2.2	.32	.28	.18
19	e.50	5.0	e.23	e.12	e.29	1.7	25	12	1.9	.23	.28	.18
20	e.50	2.2	e.21	e.12	e.30	1.4	22	12	1.7	.23	.28	.21
21	e.50	1.8	e.21	e.15	e.30	1.3	20	11	1.6	.23	.24	.23
22	e.50	1.6	e.22	e.17	e.30	1.4	19	10	1.4	.23	.24	.23
23	e.40	1.1	e.21	e.17	e.31	1.3	21	8.4	1.3	.23	.81	.23
24	e.40	e.70	e.21	e.18	e.40	1.3	23	7.4	1.2	.23	7.0	.25
25	e.40	e.50	e.20	e.21	e.40	1.3	25	6.5	1.1	.23	.46	.24
26	e.35	e.50	e.21	e.23	e.40	1.3	26	6.9	1.0	.23	.41	.23
27	e.35	e.50	e.21	e.22	e.38	1.2	27	6.2	1.0	.23	.34	.23
28	e.35	e.60	e.20	e.23	e.35	1.3	27	5.7	.99	.23	.28	.24
29	e.35	e.60	e.22	e.16	---	1.1	26	5.4	.94	.31	.28	.25
30	e.35	e.40	e.22	e.22	---	1.3	24	5.0	.92	.31	.28	.23
31	e.50	---	e.20	e.22	---	1.4	---	4.7	---	.33	.28	---
TOTAL	13.91	37.90	7.97	5.51	8.47	47.23	510.1	368.2	93.55	13.44	15.98	7.33
MEAN	.45	1.26	.26	.18	.30	1.52	17.0	11.9	3.12	.43	.52	.24
MAX	1.2	5.0	.50	.23	.40	3.1	34	23	6.1	.96	7.0	.55
MIN	.14	.40	.15	.12	.23	.36	2.2	4.7	.92	.23	.23	.17
AC-FT	28	75	16	11	17	94	1010	730	186	27	32	15

CAL YR 1986 TOTAL 865.90 MEAN 2.37 MAX 37 MIN .14 AC-FT 1720
WTR YR 1987 TOTAL 1129.58 MEAN 3.09 MAX 34 MIN .12 AC-FT 2240

e Estimated

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT

LOCATION.--Lat 37°51'30", long 109°20'30", in SW¼SE¼ sec.36, T.33 S., R.23 E., San Juan County, Hydrologic Unit 14080203, on left bank 1,000 ft west of State Highway 191 and 0.8 mi south of Monticello.

DRAINAGE AREA.--17.6 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,900 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--8 years, 5.41 ft³/s, 3,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 537 ft³/s Apr. 24, 1983, gage height, 5.77 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 17	2100	*57	*5.15				

Minimum discharge, 0.06 ft³/s several days in October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	17	.09	e.18	e.30	e.60	2.2	27	2.8	1.1	.11	.21
2	.12	11	e.10	e.20	e.28	e.70	2.5	24	2.9	.92	.09	.21
3	.12	13	e.09	e.14	e.30	e.72	2.9	8.9	2.8	.92	.09	.20
4	.11	14	e.10	e.18	e.30	e.76	2.8	5.9	2.8	.92	.11	.22
5	.09	13	e.12	e.22	e.32	e.80	3.0	5.4	1.9	.92	.08	.23
6	.08	15	e.14	e.20	e.33	.97	3.1	5.4	2.9	.92	.08	.23
7	.16	5.7	e.13	e.22	e.32	1.6	3.4	5.5	3.0	.87	.10	.23
8	.13	4.8	e.11	e.24	e.34	3.4	3.8	5.7	3.1	.72	.10	.25
9	.09	3.7	e.12	e.20	e.34	4.2	4.8	5.9	2.5	.65	.08	.26
10	.20	1.6	e.30	e.16	e.36	3.2	5.7	4.6	1.4	.61	.08	.26
11	.68	7.6	e.40	e.16	e.33	2.8	6.0	3.0	.60	.61	.08	.23
12	.45	7.7	e.35	e.17	e.34	2.5	4.8	1.7	.28	.61	.09	.23
13	.25	5.2	e.20	e.15	e.32	3.1	3.4	.49	.15	.59	.08	.23
14	.22	.25	e.16	e.14	e.30	2.8	3.7	.97	.48	.63	.08	.23
15	.12	.18	e.12	e.16	e.28	2.1	5.6	4.5	.50	.59	.08	.25
16	.07	.14	e.13	e.28	e.30	1.6	8.9	11	.18	.57	.07	.32
17	.09	.14	e.14	e.22	e.34	1.5	17	13	.76	.72	.08	.26
18	.08	.15	e.15	e.23	e.38	2.1	17	13	1.0	.58	.08	.34
19	.07	.30	e.16	e.21	e.40	2.2	10	8.8	.99	.57	.07	.38
20	.07	.15	e.13	e.19	e.42	1.7	6.1	6.7	.94	.53	.07	.33
21	.07	.18	e.14	e.22	e.38	1.6	6.0	5.1	.85	.56	.07	.36
22	.10	.14	e.16	e.22	e.38	1.6	5.3	3.8	.87	.54	.08	.40
23	e.12	.10	e.15	e.23	e.46	1.8	5.3	2.5	.80	1.4	.10	.43
24	e.14	.14	e.16	e.23	e.58	1.4	5.3	2.4	.73	2.0	1.2	.40
25	e.20	.28	e.15	e.23	e.50	1.5	5.1	1.9	.67	1.2	.36	.40
26	e3.0	.10	e.15	e.25	e.46	1.4	6.2	2.3	.66	.12	.36	.56
27	e4.0	.10	e.16	e.25	e.50	1.3	7.6	e3.2	.79	.11	.26	.50
28	6.9	.10	e.15	e.26	e.50	1.5	14	3.5	1.0	.12	.26	.40
29	6.9	.13	e.17	e.23	---	1.2	27	3.4	1.1	.10	.23	.13
30	6.9	.09	e.16	e.24	---	1.5	24	3.1	1.1	.10	.21	.12
31	12	---	e.15	e.28	---	1.3	---	3.0	---	.12	.21	---
TOTAL	43.64	121.97	4.94	6.49	10.36	55.45	222.5	195.66	40.55	21.02	5.04	8.80
MEAN	1.41	4.07	.16	.21	.37	1.79	7.42	6.31	1.35	.68	.16	.29
MAX	12	17	.40	.28	.58	4.2	27	27	3.1	2.0	1.2	.56
MIN	.07	.09	.09	.14	.28	.60	2.2	.49	.15	.10	.07	.12
AC-FT	87	242	9.8	13	21	110	441	388	80	42	10	17

CAL YR 1986	TOTAL	400.75	MEAN	1.10	MAX	17	MIN	.01	AC-FT	795
WTR YR 1987	TOTAL	736.41	MEAN	2.02	MAX	27	MIN	.07	AC-FT	1460

e Estimated

09378600 MONTEZUMA CREEK NEAR BLUFF, UT

LOCATION.--Lat 37°18'30", long 109°17'35", in NW¼SW¼ sec.16, T.40 S., R.24 E., San Juan County, Hydrologic Unit 14080201, on right bank approximately 200 ft upstream from bridge on Highway 262, 3.4 mi above mouth, and 14 mi southeast of Bluff.

DRAINAGE AREA.--1,200 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to current year. Annual maximum only December 1958 to September 1971 at crest-stage site

GAGE.--Water-stage recorder. Altitude of gage is 4,490 ft from topographic map. December 1958 to September 1971, crest-stage gage only at various sites upstream from bridge at different datums. June 6, 1985 to September 30, 1985 instantaneous measurements only at same site.

REMARKS.--Records poor. Upstream is Lloyd's Lake with a capacity of approximately 3,000 acre-ft and several diversions for agricultural use.

EXTREMES FOR PERIOD OF RECORD.--Maximum disdcharge, 2,010 ft^3/s Oct. 11, 1986, gage height, 12.96 ft; no flow on many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,010 ft^3/s Oct. 11, gage height, 12.96 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	49	e3.5	e2.9	e13	e20	e85	47	5.3	.00	.00	.00
2	.00	67	e3.5	e3.1	e16	e21	103	46	4.5	.00	.00	.00
3	.00	e34	e3.7	e3.5	e14	21	130	41	5.5	.00	.00	.00
4	.00	e21	e3.5	e4.6	e15	23	201	34	3.8	.00	.00	e29
5	.00	23	e2.0	e5.4	e17	25	184	27	3.6	.00	.00	e4.9
6	.00	22	e4.0	e9.7	e15	44	154	25	e2.0	.00	.00	e2.1
7	.00	e22	e3.9	e8.4	e17	163	151	21	e2.5	.00	e25	e1.0
8	.00	e21	e3.8	e7.0	e19	286	154	21	e2.5	.00	40	.00
9	.00	e20	e3.7	e9.0	e18	537	149	19	4.2	.00	e2.0	.00
10	.00	e20	e3.4	e7.9	e17	669	151	19	4.8	.00	e1.0	.00
11	e130	e19	e3.2	e5.0	e19	530	138	21	4.2	.00	.00	.00
12	e62	e17	e3.6	e4.1	e25	538	134	18	4.1	.00	.00	.00
13	e21	e21	e3.8	e4.3	e40	409	126	17	3.6	.00	.00	.00
14	13	e22	e4.1	e4.5	e78	554	110	15	e2.0	.00	.00	.00
15	e2.8	e16	e4.3	e4.9	e44	299	100	17	e5.6	.00	.00	.00
16	e2.0	e17	e4.4	e4.3	e38	216	105	16	e2.0	e1.4	.00	.00
17	e2.0	e15	e3.9	e3.0	e31	159	109	20	e1.0	.00	.00	.00
18	e1.0	e25	e4.6	e1.8	e25	150	101	28	e1.0	.00	.00	.00
19	.00	e50	e4.3	e2.3	e19	210	103	27	.00	.00	.00	.00
20	.00	e21	e4.1	e2.9	e21	182	94	27	.00	.00	.00	.00
21	.00	e10	e3.9	e4.2	e19	155	82	26	.00	.00	.00	.00
22	.00	e11	e4.4	e4.9	e17	153	70	25	.00	.00	.00	.00
23	.00	e6.5	e4.0	e5.4	e16	150	61	20	.00	.00	.00	.00
24	.00	e4.4	e3.8	e5.4	e12	139	e64	16	.00	.00	e185	.00
25	.00	e4.0	e3.7	e6.0	e16	134	58	13	.00	.00	57	.00
26	e3.5	e3.7	e3.5	e6.6	e17	121	54	13	.00	.00	89	.00
27	12	e3.4	e3.7	e7.0	e18	111	e54	11	.00	.00	13	.00
28	13	e3.1	e3.3	e7.8	e21	115	53	13	e1.8	.00	e2.0	.00
29	14	e4.1	e3.6	e7.5	---	107	52	11	e.80	.00	e1.0	.00
30	13	e3.4	e3.1	e7.4	---	103	52	8.1	.00	.00	.00	.00
31	14	---	e2.8	e8.0	---	e95	---	6.5	---	.00	.00	---
TOTAL	303.30	575.6	115.1	169.4	637	6439	3182	668.6	64.80	1.40	415.00	37.00
MEAN	9.78	19.2	3.71	5.46	22.7	208	106	21.6	2.16	.05	13.4	1.23
MAX	130	67	4.6	9.7	78	669	201	47	5.6	1.4	185	29
MIN	.00	3.1	2.0	1.8	12	20	52	6.5	.00	.00	.00	.00
AC-FT	602	1140	228	336	1260	12770	6310	1330	129	2.8	823	73

CAL YR 1986 TOTAL 6423.57 MEAN 17.6 MAX 130 MIN .00 AC-FT 12740
WTR YR 1987 TOTAL 12608.18 MEAN 34.5 MAX 669 MIN .00 AC-FT 25010

e Estimated

09378600 MONTEZUMA CREEK NEAR BLUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1985 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	HARDNESS NONCARB WH WAT TOT FLD MG/L AS CACO3
NOV , 1986									
05...	1400	23	950	8.10	19.0	15.0	300	100	100
JAN , 1997									
08...	1300	7.4	2420	8.00	3.0	4.0	670	0	0
MAR									
02...	1200	21	3240	8.10	9.0	6.0	1200	1100	1100
APR									
09...	1200	152	2030	8.60	14.5	10.5	880	700	700
MAY									
05...	1100	34	1660	8.30	22.0	16.5	600	400	400
JUN									
08...	1200	4.5	1610	8.20	28.0	22.0	520	350	350

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
NOV , 1986								
05...	79	24	84	38	2	4.5	196	230
JAN , 1987								
08...	130	84	230	42	4	18	--	670
MAR								
02...	210	160	280	34	4	6.6	102	1300
APR								
09...	170	110	150	27	2	4.2	176	860
MAY								
05...	120	72	130	32	2	4.1	194	500
JUN								
08...	100	65	190	44	4	5.5	168	620

DATE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOSPHORUS, DIS-SOLVED (MG/L AS P)
NOV , 1986								
05...	44	0.30	8.1	590	0.80	37	0.460	0.080
JAN , 1987								
08...	240	0.30	7.8	--	--	--	0.180	0.036
MAR								
02...	260	0.30	8.9	2300	3.1	127	0.600	0.058
APR								
09...	150	0.30	7.6	1600	2.1	639	0.290	0.040
MAY								
05...	100	0.30	9.7	1100	1.4	97	<0.100	0.091
JUN								
08...	120	0.30	10	1200	1.6	15	1.20	0.011

09378600 MONTEZUMA CREEK NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
NOV , 1986		
05...	1400	70
JAN , 1987		
08...	1300	300
MAR		
02...	1200	140
APR		
09...	1200	90
MAY		
05...	1100	100
JUN		
08...	1200	150

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. PERCENT FINER THAN .002 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .004 MM
NOV , 1986							
05...	1400	23	15.0	2740	172	49	59
JAN , 1987							
08...	1300	7.4	4.0	626	13	38	52
MAR							
02...	1200	21	6.0	990	55	30	37
APR							
09...	1200	152	10.5	2490	1020	39	46
MAY							
05...	1100	34	16.5	1410	130	35	41
JUN							
08...	1200	4.5	22.0	446	5.5	29	47

DATE	SED. SUSP. FALL DIAM. PERCENT FINER THAN .016 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .062 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .125 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .250 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN .500 MM	SED. SUSP. FALL DIAM. PERCENT FINER THAN 1.00 MM
NOV , 1986						
05...	77	93	98	99	100	--
JAN , 1987						
08...	65	80	96	100	--	--
MAR						
02...	48	83	98	100	--	--
APR						
09...	61	85	98	100	--	--
MAY						
05...	54	71	88	98	99	100
JUN						
08...	64	76	91	99	100	--

09378630 RECAPTURE CREEK NEAR BLANDING, UT

LOCATION.--Lat 37°45'20", long 109°28'33", in NW¼NE¼NW¼ sec.11, T.35 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on right bank 100 ft below road fork, 1.9 mi north of Manti-LaSal National Forest boundary, and 9.4 mi north of Blanding.

DRAINAGE AREA.--3.77 mi².

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,200 ft from topographic map

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--22 years, 1.50 ft³/s, 1,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 142 ft³/s Oct. 20, 1972, gage height, 2.14 ft; no flow many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8.0 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 11	2000	14	1.25	Apr. 27	0100	25	1.39
Apr. 17	2030	*41	*1.55	Aug. 24	0840	21	1.38

Minimum daily discharge, .01 ft³/s on many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.68	e.08	e.01	e.02	e.02	1.3	14	1.5	.08	.02	.01
2	.03	.48	e.06	e.01	e.02	e.02	2.0	13	1.6	.07	.01	.01
3	.03	.38	e.06	e.01	e.02	e.06	3.0	9.8	1.7	.06	.01	.01
4	.03	.33	e.06	e.01	e.02	e.15	3.8	7.5	1.8	.06	.03	.01
5	.03	.26	e.07	e.01	e.02	.47	3.2	6.3	2.0	.05	.01	.01
6	.04	.31	e.08	e.01	e.02	.98	4.3	6.0	2.2	.05	.02	.01
7	.04	.16	e.06	e.01	e.02	1.6	5.4	6.5	2.2	.05	.04	.01
8	.04	.09	e.06	e.01	e.02	1.7	6.3	5.3	2.3	.04	.02	.01
9	.04	.16	e.04	e.01	e.02	1.9	6.8	5.4	2.0	.04	.01	.01
10	.06	.11	e.01	e.01	e.02	1.9	7.5	4.9	1.6	.03	.01	.01
11	.34	.11	e.02	e.01	e.03	1.9	8.8	4.4	1.3	.03	.01	.01
12	.32	.08	e.02	e.01	e.03	2.0	6.8	4.0	1.1	.03	.01	.01
13	.17	.06	e.02	e.01	e.03	2.6	4.9	3.9	.95	.03	.01	.01
14	.15	.06	e.02	e.01	e.03	2.6	5.4	4.0	.86	.02	.01	.01
15	.18	.06	e.02	e.01	e.03	2.1	8.1	4.7	.79	.02	.01	.01
16	.17	.06	e.02	e.01	e.03	1.5	11	4.9	.74	.02	.01	.01
17	.14	.06	e.02	e.01	e.02	1.3	17	4.6	.65	.04	.01	.01
18	.14	.18	e.02	e.01	e.02	1.4	21	4.4	.53	.02	.01	.01
19	.10	.48	e.02	e.01	e.02	1.4	16	4.2	.46	.02	.01	.01
20	.12	.31	e.02	e.01	e.02	1.2	13	3.6	.41	.02	.01	.01
21	.13	.28	e.02	e.01	e.02	1.2	11	3.0	.34	.02	.01	.01
22	.13	.26	e.02	e.01	e.02	1.2	12	2.6	.28	.02	.01	.01
23	.10	.15	e.02	e.01	e.02	1.0	14	2.4	.23	.02	.10	.01
24	.10	e.11	e.02	e.01	e.03	1.1	17	2.2	.17	.02	3.1	.01
25	.09	e.08	e.02	e.01	e.03	1.1	17	2.0	.14	.01	.10	.01
26	.08	e.08	e.02	e.02	e.03	1.0	18	2.0	.12	.01	.02	.03
27	.08	e.08	e.02	e.02	e.02	.96	18	e1.7	.13	.02	.01	.01
28	.08	e.09	e.02	e.02	e.02	.92	17	1.6	.13	.01	.01	.01
29	.08	e.09	e.02	e.02	---	.80	16	1.7	.12	.02	.01	.01
30	.08	e.07	e.02	e.02	---	.83	16	1.6	.10	.02	.01	.01
31	.15	---	e.01	e.02	---	.90	---	1.4	---	.02	.01	---
TOTAL	3.30	5.71	.99	.37	.65	37.81	311.6	142.6	28.45	.97	3.67	.32
MEAN	.11	.19	.03	.01	.02	1.22	10.4	4.60	.95	.03	.12	.01
MAX	.34	.68	.08	.02	.03	2.6	21	14	2.3	.08	3.1	.03
MIN	.03	.06	.01	.01	.02	.02	1.3	1.4	.10	.01	.01	.01
AC-FT	6.5	11	2.0	.7	1.3	75	618	283	56	1.9	7.3	.6

CAL YR 1986 TOTAL 587.79 MEAN 1.61 MAX 25 MIN .01 AC-FT 1170
WTR YR 1987 TOTAL 536.43 MEAN 1.47 MAX 21 MIN .01 AC-FT 1060

e Estimated

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT

LOCATION.--Lat 37°40'51", long 109°27'43", in SW¼SW¼SE¼ sec.2, T.36 S., R.22 E., San Juan County, Hydrologic Unit 14080201, on left bank 0.2 mi downstream from Johnson Creek, 1.5 mi upstream from U.S. Highway 191 and 4.3 mi northwest of Blanding.

DRAINAGE AREA.--50.2 mi^2.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--12 years, 9.92 ft^3/s, 7,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 695 ft^3/s Mar. 14, 1981, gage height, 5.67 ft; no flow many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 230 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 24	0930	*174	*3.76				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	7.3	.59	e.17	e.40	e.50	13	57	14	.14	.00	.00
2	.03	3.2	.44	e.19	e.38	e1.0	16	50	15	.15	.00	.00
3	.03	1.4	.58	e.19	e.56	e1.3	18	42	17	.15	.00	.00
4	.09	.96	.68	e.21	e.47	e2.6	29	36	18	.14	.00	e.01
5	.04	.85	e.70	e.23	e.49	e5.9	27	31	20	.12	.00	e.01
6	e.01	.84	e.80	e.18	e.67	e9.8	30	29	22	.1	.00	.00
7	e.03	.77	e.78	e.20	e.60	16	40	27	23	.09	.00	.00
8	.09	.30	e.70	e.17	e.86	18	36	26	24	.09	.00	.00
9	.04	.05	e.60	e.10	e.84	18	33	26	21	.07	.00	.00
10	.32	.04	e.50	e.15	e.77	18	32	25	16	.06	.00	.00
11	4.8	.17	e.30	e.16	e.80	14	31	23	12	.06	.00	.00
12	3.7	.19	e.29	e.17	e.76	16	31	22	9.6	.05	.00	.00
13	2.2	.17	e.18	e.17	e.74	19	23	25	8.1	.04	.00	.00
14	1.9	.08	e.20	e.12	e.74	16	20	27	7.4	.03	.00	.00
15	1.2	.06	e.22	e.10	e.70	15	33	28	7.3	e.02	.00	.00
16	1.5	.06	e.26	e.07	e.71	13	59	30	6.6	e.02	.00	.00
17	1.7	.1	e.28	e.04	e.65	12	92	29	5.5	.12	.00	.00
18	1.7	1.0	e.27	e.01	e.63	12	111	29	4.3	.05	.00	.00
19	1.7	5.1	e.22	e.02	e.60	13	83	28	3.5	e.02	.00	.00
20	1.7	2.1	e.22	e.02	e.62	13	63	26	3.4	e.02	.00	.00
21	2.1	1.9	e.21	e.01	e.58	11	53	23	2.6	e.02	.00	.00
22	2.0	2.1	e.18	e.02	e.58	12	46	19	.34	e.01	.00	.00
23	2.0	1.7	e.18	e.03	e.59	14	61	17	.21	.00	e.01	.00
24	1.8	2.3	e.18	e.04	e.55	11	70	17	.20	.00	18	.00
25	1.8	2.5	e.16	e.05	e.50	10	70	14	.19	.00	3.6	.00
26	1.4	1.3	e.14	e.06	e.48	10	75	19	.17	.00	1.8	.00
27	.64	1.1	e.19	e.10	e.44	11	74	16	.17	.00	.54	.00
28	.40	1.2	e.17	e.16	e.40	8.9	77	13	.17	.00	e.01	.00
29	.25	1.1	e.18	e.14	---	9.1	72	12	.17	.00	.00	.00
30	.20	.88	e.18	e.22	---	9.3	69	11	.16	.00	.00	.00
31	.42	---	e.17	e.36	---	9.6	---	13	---	e.02	.00	---
TOTAL	35.85	40.82	10.75	3.86	17.11	348.00	1487	790	262.08	1.59	23.96	.02
MEAN	1.16	1.36	.35	.12	.61	11.2	49.6	25.5	8.74	.05	.77	.00
MAX	4.8	7.3	.80	.36	.86	19	111	57	24	.15	18	.01
MIN	.01	.04	.14	.01	.38	.50	13	11	.16	.00	.00	.00
AC-FT	71	81	21	7.7	34	690	2950	1570	520	3.2	48	.0

CAL YR 1986 TOTAL 3769.20 MEAN 10.3 MAX 170 MIN .00 AC-FT 7480
WTR YR 1987 TOTAL 3021.03 MEAN 8.28 MAX 111 MIN .00 AC-FT 5990

e Estimated

09378700 COTTONWOOD WASH NEAR BLANDING, UT

LOCATION.--Lat 37°33'38", long 109°34'41", in SW¼NE¼NW¼ sec.23, T.37 S., R.21 E., San Juan County, Hydrologic Unit 14080201, on left bank, 40 ft north of highway bridge on State Highway 95, about 2.1 mi downstream from Brushy Basin Canyon, and 7.0 mi southwest of Blanding.

DRAINAGE AREA.--205 mi².

PERIOD OF RECORD.--October 1964 to September 1987 (discontinued). Annual maximum only December 1958 to September 1964 at crest-stage site.

GAGE.--Water-stage recorder. Datum of gage is 5,137.73 ft NGVD of 1929. Prior to October 1964, crest-stage gage only at site 300 ft upstream at different datum; October 1964 to July 13, 1966, at site 50 ft upstream at different datum. July 14, 1966 to Aug. 15, 1968, at same site at different datum.

REMARKS.--Records poor. No regulation or diversions above station.

AVERAGE DISCHARGE.--23 years, 8.98 ft³/s, 6,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,500 ft³/s Aug. 1, 1968, gage height, 20.68 ft; no flow during some periods each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 24	1100	*859	*6.11				

No flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.5	e5.6	3.1	e2.8	e4.2	e4.4	e17	24	3.7	.00	5.7	.00
2	e4.0	e3.0	e3.0	e3.0	e4.1	e5.3	e19	20	2.4	.00	e.02	.00
3	5.0	e1.9	e3.2	e3.0	e4.5	11	e21	19	2.6	.00	.00	.00
4	4.7	e7.2	e3.3	e3.1	e4.3	12	e31	18	4.2	.00	.00	.00
5	3.9	e5.4	e3.4	e3.3	e4.4	13	e27	17	6.5	.00	.00	e.02
6	3.3	e4.9	e4.0	e3.0	e4.8	13	e29	17	6.6	.00	.00	23
7	3.3	e4.6	e3.8	e3.2	e4.7	14	e34	16	7.4	.00	e6.0	14
8	3.3	e4.[illegible]	e3.2	e2.9	e5.3	18	e30	16	8.9	.00	68	3.8
9	3.3	e3.4	e3.0	e2.5	e5.2	20	e27	15	14	.00	6.6	1.6
10	6.9	e3.0	e2.4	e2.7	e5.0	e18	26	14	11	.00	1.6	e.70
11	31	e4.2	e2.3	e2.8	e5.1	e16	e27	14	8.5	.00	e.02	.00
12	32	e4.4	e2.6	e2.9	e5.0	e18	28	14	6.8	.00	.00	.00
13	e29	e4.2	e2.8	e2.9	e4.9	e23	22	16	5.2	.00	.00	.00
14	e13	e4.0	e3.0	e2.7	e4.9	e21	e18	17	3.8	.00	.00	.00
15	e9.6	3.9	e3.1	e2.6	e4.8	e19	e28	16	2.9	.00	.00	e.70
16	e4.2	3.8	e3.3	e2.4	e4.8	e17	e34	14	3.3	.00	.00	e.72
17	e5.5	3.8	e3.4	e1.8	e4.5	e16	48	15	2.8	e.52	.00	.00
18	e5.6	14	e3.4	e1.7	e4.3	e16	60	15	1.5	.00	.00	.00
19	e5.5	32	e3.2	e1.9	e4.1	e17	50	16	e.40	.00	.00	.00
20	e5.4	8.8	e3.2	e1.9	e4.2	e17	36	e14	e.10	.00	.00	.00
21	e5.9	6.5	e3.1	e1.7	e4.0	e15	32	e13	.00	.00	.00	.00
22	e5.7	5.6	e3.0	e2.0	e4.0	e16	34	e11	.00	.00	e2.3	.00
23	e5.7	4.2	e3.0	e2.3	e4.1	e18	39	e10	.00	.00	33	.00
24	e5.4	3.5	e3.0	e2.9	e3.9	e15	41	e10	.00	.00	244	.00
25	e5.4	4.5	e2.8	e3.2	e3.8	e14	37	e8.8	.00	.00	18	.00
26	e5.0	4.5	e2.7	e3.6	e3.7	e14	34	e11	.00	.00	10	.00
27	e4.8	3.8	e3.0	e3.7	e3.6	e15	31	e9.8	e1.0	.00	4.0	.00
28	e4.0	3.4	e2.9	e3.8	e3.5	e10	33	e8.9	8.5	.00	2.1	.00
29	e3.6	4.6	e3.0	e3.7	---	e11	e30	8.2	e.20	e10	.90	.00
30	e3.0	3.7	e3.0	e3.9	---	e12	e27	6.7	.00	38	e.10	.00
31	e5.2	---	e2.8	e4.1	---	e13	---	5.4	---	11	.00	---
TOTAL	235.7	170.5	95.0	88.0	123.7	461.7	950	429.8	112.30	59.52	402.34	44.54
MEAN	7.60	5.68	3.06	2.84	4.42	14.9	31.7	13.9	3.74	1.92	13.0	1.48
MAX	32	32	4.0	4.1	5.3	23	60	24	14	38	244	23
MIN	3.0	1.9	2.3	1.7	3.5	4.4	17	5.4	.00	.00	.00	.00
AC-FT	468	338	188	175	245	916	1880	853	223	118	798	88

CAL YR 1986 TOTAL 4579.50 MEAN 12.5 MAX 156 MIN .00 AC-FT 9080
WTR YR 1987 TOTAL 3173.08 MEAN 8.69 MAX 244 MIN .00 AC-FT 6290

e Estimated

09379500 SAN JUAN RIVER NEAR BLUFF, UT

LOCATION.--Lat 37°08'49", long 109°51'51", in SE¼NE¼NW¼ sec.7, T.42 S., R.19 E., San Juan County, Hydrologic Unit 14080205, on left bank 1,600 ft downstream from Gypsum Creek, 1,800 ft upstream from highway bridge, 20 mi southwest of Bluff, at mile 113.5.

DRAINAGE AREA.--23,000 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1213: 1940. WSP 1313: 1917, 1929. WSP 1343: 1945.

GAGE.--Water-stage recorder. Datum of gage is 4,048 ft from levels of Topographic Division, U.S. Geological Survey. Prior to Mar. 16, 1927, chain gages at sites about 1,700 ft downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Diversions for irrigation of approximately 200,000 acres above station. No diversion between station and mouth of river. Flow regulated by Navajo Reservoir since June 28, 1962 (see station 09355100 in New Mexico report).

AVERAGE DISCHARGE.--73 years, 2,603 ft³/s, 1,886,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--1914-17, 1927-86; maximum discharge, 70,000 ft³/s Sept. 10, 1927, gage height, 32.0 ft from rating curve extended above 31,000 ft³/s and slope-area measurement at gage height 26.62 ft; no flow July 3-13, 1934, Aug. 24-27, 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 6, 1911, which is greatest known at Shiprock, NM, probably exceeded that of Sept. 10, 1927 at this station but stage was not accurately determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 3	1100	9,820	9.88	May 18	1645	10,000	9.97
Mar. 9	1930	8,760	9.32	June 12	0345	*11,600	*10.57
May 3	1535	10,000	9.97				

Minimum, 822 ft³/s Aug. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3560	3200	3790	3420	3510	1720	4980	8810	3060	7540	1720	1400
2	3430	5340	3760	3440	3520	1640	5010	9290	3000	7270	1610	1280
3	3340	9200	3690	3470	3560	1620	5060	9730	5520	7010	1600	1220
4	3320	5380	3710	e3400	3630	1910	5560	9320	7340	6880	1550	1160
5	3310	6070	3750	e3300	3740	3550	6220	8140	8149	6710	1510	1270
6	3240	5840	4110	e3260	4110	4510	6000	7600	8970	6430	1560	1120
7	3870	4580	4990	e3220	3970	5770	5890	7610	9430	6110	2090	1170
8	2580	4880	4730	e3230	3800	7050	5790	7670	10300	5960	3300	1150
9	2120	4060	4520	e3270	3860	7740	5790	7810	10800	5810	2340	1170
10	1910	3700	4090	e3340	4120	7690	6100	8090	10700	5640	1790	1070
11	2720	3480	3790	e3350	4150	6950	6410	8340	11200	5520	1520	1000
12	5850	3420	3570	e3340	4160	6350	6620	8260	11300	5560	1420	923
13	6180	3480	3550	e3320	4350	5700	6630	8610	10900	5680	1370	966
14	5020	3790	3580	e3340	4740	5380	6690	8720	10600	5590	1560	1070
15	3930	3840	3590	e3300	5240	5080	6350	8410	10800	5520	1260	1030
16	3530	3900	e3600	e3310	4810	4650	6420	9080	11000	5300	1150	988
17	3390	3880	e3550	e3280	4270	4380	6980	9590	11300	5620	1060	947
18	3340	3960	e3880	e3270	3970	4180	7840	9820	11200	5550	1010	1080
19	3340	5400	3740	e3260	3880	4070	8650	9790	10200	5740	967	996
20	3320	5340	3720	e3280	3740	4310	8620	9260	9790	5640	896	986
21	3330	4610	3710	e3320	3650	4250	e7700	7430	9560	5400	858	1030
22	3350	4180	3660	e3280	3580	4150	e7400	5850	9140	4980	921	974
23	3240	4070	3650	e3310	3480	4150	e7400	5390	8570	4290	e1450	931
24	3150	3990	3620	e3320	3460	4060	e7450	5120	8420	2910	e2700	913
25	3090	3890	3590	e3200	2370	5040	7440	5010	8520	2420	3500	887
26	2860	3880	3540	e3200	1830	5240	7780	4740	8460	2200	3050	913
27	2290	4050	3510	3380	1850	5180	7960	4360	8440	2000	2590	896
28	2180	3960	3480	3390	1780	5080	8160	4120	8300	1730	2140	927
29	2150	3840	3440	3430	---	5070	8500	3640	8090	1800	1800	955
30	2680	3830	3460	3480	---	5000	8750	3360	7740	1950	1610	934
31	3040	---	3440	3480	---	4950	---	3210	---	2440	1510	---
TOTAL	162660	133040	116810	103190	103130	146420	206350	226180	270790	153280	53412	31356
MEAN	3312	4435	3768	3329	3683	4723	6878	7296	9026	4945	1723	1045
MAX	6180	9200	4990	3480	5240	7740	8750	9820	11300	7540	3500	1400
MIN	1910	3200	3440	3260	1780	1620	4980	3210	3000	1730	858	887
AC-FT	203600	263900	231700	204700	204600	290400	409300	448600	537100	304000	105900	62190

CAL YR 1986 TOTAL 1444470 MEAN 3957 MAX 10500 MIN 1750 AC-FT 2865000
WTR YR 1987 TOTAL 1646620 MEAN 4511 MAX 11300 MIN 858 AC-FT 3266000

e Estimated

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1929 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1941 to September 1977, October 1980 to current year.
WATER TEMPERATURES: May 1944 to September 1961, October 1964 to current year.
SUSPENDED-SEDIMENT DISCHARGE: July 1929 to September 1980.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 2,790 microsiemens Sept. 19, 1959; minimum daily, 208 microsiemens June 17, 1952.
WATER TEMPERATURES: Maximum, 33.0°C July 31, 1959; minimum, 0.0°C on many days during winter period of most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 383,000 mg/L Sept. 21, 1929; minimum daily mean, no flow on several days in 1934 and 1939.
SEDIMENT LOADS: Maximum daily, 15,700,000 tons Oct. 20, 1972; minimum daily, 0 tons on several days in 1934 and 1939.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,240 microsiemens Oct. 12; minimum recorded, 270 microsiemens June 16, 18, 19.
WATER TEMPERATURES: Maximum recorded, 25.5°C Aug. 5; minimum recorded, 0.1°C Jan. 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1986											
21...	1015	3360	520	8.10	20.5	10.5	--	10.5	650	--	--
NOV											
21...	1200	4720	660	8.10	14.5	8.0	1800	9.7	653	--	--
DEC											
18...	1140	3800	520	8.10	7.0	5.5	--	11.1	660	--	--
JAN , 1987											
26...	1300	3180	485	8.20	10.0	3.0	--	12.1	660	--	--
FEB											
23...	1200	3380	600	8.00	12.0	4.0	--	11.9	650	--	--
APR											
21...	1030	7670	430	8.20	17.5	9.5	--	10.4	660	--	--
MAY											
18...	1115	9590	365	8.30	23.0	15.0	--	8.7	654	<1	<1
JUN											
23...	1100	8550	320	8.30	28.0	18.5	35	8.0	660	--	--
JUL											
20...	1120	5880	375	8.20	18.5	17.5	34	8.0	661	--	--
AUG											
17...	1100	1070	670	8.50	25.0	21.0	--	7.2	660	--	--
31...	1130	1500	630	8.30	29.0	21.0	--	7.6	660	--	--

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WH WAT TOTAL FIELD MG/L AS HCO3	CAR-BONATE WH WAT TOTAL FIELD MG/L AS CO3
OCT , 1986										
21...	200	89	54	15	28	23	0.9	2.2	--	--
NOV										
21...	230	120	60	19	42	28	1	2.4	130	0
DEC										
18...	190	0	50	15	30	26	1	2.0	--	--
JAN , 1987										
26...	180	0	48	14	30	27	1	2.2	--	--
FEB										
23...	200	94	55	16	40	30	1	2.3	--	--
APR										
21...	160	55	44	13	23	23	0.8	2.1	--	--
MAY										
18...	--	--	--	--	--	--	--	--	110	0
JUN										
23...	120	43	35	7.9	14	20	0.6	1.5	94	0
JUL										
20...	150	64	43	10	19	21	0.7	2.0	100	0
AUG										
17...	290	150	78	22	55	29	1	3.2	--	--
31...	270	140	75	20	38	23	1	2.7	--	--

DATE	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1986										
21...	--	150	11	0.30	10	341	340	0.46	3090	--
NOV										
21...	108	200	11	0.30	9.5	446	410	0.61	5680	<0.010
DEC										
18...	--	140	19	0.20	11	312	--	0.42	3200	--
JAN , 1987										
26...	--	130	8.6	0.20	10	303	--	0.41	2600	--
FEB										
23...	--	170	11	0.20	10	379	370	0.52	3460	--
APR										
21...	--	100	6.6	0.20	9.5	272	260	0.37	5630	--
MAY										
18...	89	--	--	--	--	--	--	--	--	<0.010
JUN										
23...	77	66	3.3	0.20	8.2	189	180	0.26	4360	<0.010
JUL										
20...	85	89	5.5	0.20	9.3	245	230	0.33	3890	<0.010
AUG										
17...	--	240	17	0.30	10	541	510	0.74	1560	--
31...	--	200	12	0.30	9.1	463	430	0.63	1880	--

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
OCT , 1986										
21...	0.220	--	--	--	--	--	--	--	0.020	0.06
NOV										
21...	0.290	<0.010	<0.010	--	--	1.2	0.450	0.040	<0.010	--
DEC										
18...	0.300	--	0.050	0.06	--	--	--	--	0.050	0.15
JAN , 1987										
26...	0.220	--	0.060	0.08	--	--	--	--	0.020	0.06
FEB										
23...	0.280	--	0.020	0.03	--	--	--	--	0.010	0.03
APR										
21...	0.110	--	0.070	0.09	--	--	--	--	<0.010	--
MAY										
18...	0.110	0.040	0.020	0.03	0.86	0.90	0.460	0.050	0.030	0.09
JUN										
23...	<0.100	0.040	0.010	0.01	1.3	1.3	0.160	0.010	0.020	0.06
JUL										
20...	<0.100	0.010	0.010	0.01	0.79	0.80	0.140	0.020	<0.010	--
AUG										
17...	<0.100	--	0.040	0.05	--	--	--	--	0.010	0.03
31...	0.290	--	0.030	0.04	--	--	--	--	0.030	0.09

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS C[illegible]	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV , 1986											
21...	1200	10	1	96	<0.5	<1	<1	<3	4	6	<5
JUN , 1987											
23...	1100	20	<1	75	<0.5	<1	<1	<3	3	26	<5
JUL											
20...	1120	90	<1	71	<0.5	<1	<1	<3	3	110	<5

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV , 1986										
21...	27	<1	<0.1	<10	1	2	<1	790	<6	27
JUN , 1987										
23...	14	3	<1.0	<10	1	<1	<1	350	<6	8
JUL										
20...	23	8	<0.1	<10	2	3	1	450	<6	<3

DATE	TIME	BORON, DISSOLVED (UG/L AS B)
OCT , 1986		
21...	1015	40
DEC		
18...	1140	30
JAN , 1987		
26...	1300	30
FEB		
23...	1200	30
APR		
21...	1030	30
MAY		
18...	1115	--
AUG		
17...	1100	70
31...	1130	60

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	510	490	500	520	500	513	570	550	559	500	460	478
2	490	480	488	720	520	621	560	530	544	510	460	479
3	490	480	489	870	700	770	530	520	523	510	470	492
4	500	480	488	820	670	756	530	510	519	500	470	487
5	500	490	495	710	600	650	530	510	520	500	460	478
6	490	480	487	790	709	759	524	500	511	520	480	498
7	490	460	473	700	578	639	580	530	551	510	490	500
8	850	450	678	750	560	643	740	580	675	500	490	497
9	750	680	703	730	620	647	720	650	672	500	490	497
10	730	680	710	620	570	590	650	590	616	490	470	483
11	750	606	701	570	550	561	590	520	563	480	450	463
12	1240	600	844	570	550	557	530	500	519	480	440	456
13	800	713	758	560	540	551	540	490	511	500	450	471
14	720	670	700	550	500	527	560	500	520	510	460	482
15	700	630	667	510	490	503	550	510	520	530	460	489
16	680	580	610	500	490	497	540	520	526	520	450	484
17	590	560	577	500	490	491	540	500	520	510	470	483
18	570	540	552	500	480	488	530	510	519	480	380	450
19	550	530	539	620	470	526	540	510	526	450	350	412
20	540	530	532	700	490	622	550	530	536	470	340	418
21	550	520	531	720	620	667	550	520	532	480	390	469
22	540	520	530	620	560	579	520	510	519	480	460	472
23	540	520	526	570	550	561	520	500	514	480	450	460
24	530	510	522	570	550	558	520	490	508	470	450	462
25	530	520	524	550	530	541	510	490	503	490	450	467
26	550	520	527	540	520	530	510	484	501	490	460	474
27	610	550	572	566	520	533	500	480	493	490	470	479
28	650	610	638	600	570	587	510	460	488	510	460	484
29	660	640	650	590	550	561	520	460	487	520	480	500
30	650	620	636	570	550	555	520	460	497	540	500	516
31	630	520	557	---	---	---	510	460	493	540	500	529
MONTH	1240	450	587	870	470	586	740	460	531	540	340	478

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	560	530	549	1010	960	985	520	480	502	360	350	356
2	600	540	566	1070	970	1030	530	490	503	360	350	353
3	619	540	569	1090	1030	1070	570	520	537	360	350	352
4	640	570	604	1090	1030	1060	610	540	560	360	340	348
5	640	570	608	1030	710	887	640	560	597	370	350	359
6	650	580	618	730	650	677	560	540	549	380	370	375
7	690	580	635	---	---	---	560	520	537	380	370	373
8	620	540	583	---	---	---	550	530	538	380	370	377
9	580	540	563	---	---	---	540	520	532	380	360	367
10	600	540	570	---	---	---	540	520	535	360	350	356
11	600	550	576	---	---	---	540	490	512	350	340	345
12	600	550	581	---	---	---	520	480	494	350	340	345
13	610	580	598	---	---	---	491	470	482	350	340	345
14	680	600	628	---	---	---	520	490	505	420	330	353
15	740	660	701	---	---	---	500	470	482	350	340	342
16	740	690	719	---	---	---	480	470	475	440	340	362
17	700	630	658	---	---	---	480	460	470	410	330	352
18	660	620	643	---	---	---	470	440	456	350	320	333
19	670	620	643	---	---	---	460	420	436	340	320	327
20	630	580	609	---	---	---	430	420	423	341	320	328
21	600	580	590	---	---	---	430	410	416	371	350	360
22	610	590	602	---	---	---	440	420	425	420	380	395
23	620	580	599	---	---	---	450	420	426	440	410	427
24	610	570	588	690	670	677	430	410	420	440	430	436
25	680	580	628	670	610	636	420	390	406	500	440	478
26	910	690	778	600	570	578	400	380	389	480	470	479
27	1020	910	967	560	550	555	390	380	381	480	460	471
28	1040	970	1000	550	540	544	390	380	382	480	460	474
29	---	---	---	550	520	537	380	360	369	491	470	479
30	---	---	---	530	520	523	370	360	363	510	490	499
31	---	---	---	520	500	514	---	---	---	520	500	509
MONTH	1040	530	642	---	---	---	640	360	470	520	320	389

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	520	510	518	330	310	322	830	630	715	610	590	594
2	520	510	516	330	310	321	1040	751	846	610	590	597
3	520	390	469	330	320	323	830	740	773	---	---	---
4	390	330	357	330	310	323	810	720	740	---	---	---
5	340	310	320	330	320	325	720	700	716	---	---	---
6	310	290	300	330	310	326	1100	690	718	---	---	---
7	311	290	302	340	320	329	1180	520	815	---	---	---
8	320	290	302	340	320	332	990	710	871	---	---	---
9	320	290	303	340	330	333	990	870	944	---	---	---
10	320	300	313	340	320	333	1040	821	917	---	---	---
11	320	310	313	350	330	338	820	760	779	---	---	---
12	320	300	311	340	330	338	760	730	739	---	---	---
13	310	290	298	350	330	337	780	740	763	---	---	---
14	300	280	293	340	330	337	930	500	733	---	---	---
15	300	280	290	340	330	335	800	770	781	---	---	---
16	300	270	286	350	330	336	---	---	---	---	---	---
17	300	280	286	340	330	333	---	---	---	---	---	---
18	290	270	280	390	330	347	---	---	---	---	---	---
19	300	270	284	360	340	351	---	---	---	---	---	---
20	300	280	287	370	340	356	---	---	---	---	---	---
21	300	280	289	360	340	346	---	---	---	---	---	---
22	300	280	290	680	340	412	---	---	---	---	---	---
23	310	280	297	517	360	398	---	---	---	---	---	---
24	310	290	300	710	470	533	---	---	---	---	---	---
25	300	290	294	520	460	492	---	---	---	---	---	---
26	290	280	290	570	520	543	---	---	---	---	---	---
27	290	280	285	560	540	549	---	---	---	---	---	---
28	300	280	287	590	560	572	---	---	---	---	---	---
29	320	290	305	639	580	597	---	---	---	---	---	---
30	330	300	316	790	630	695	---	---	---	---	---	---
31	---	---	---	830	710	771	---	---	---	---	---	---
MONTH	520	270	319	830	310	406	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	14.9	13.4	14.1	10.3	9.8	10.1	5.7	4.6	5.0	3.1	2.2	2.6
2	14.8	13.6	13.9	10.2	9.7	9.9	4.9	3.7	4.2	3.6	2.8	3.2
3	13.8	13.2	13.5	9.7	9.1	9.4	4.7	3.7	4.2	3.6	2.7	3.1
4	13.5	11.9	12.7	9.9	8.9	9.3	5.0	4.0	4.5	3.1	2.4	2.8
5	13.8	12.1	12.9	9.8	9.2	9.5	6.1	4.7	5.2	3.6	2.8	3.1
6	14.3	13.0	13.6	9.4	8.5	8.8	6.7	6.1	6.4	4.0	3.1	3.5
7	15.2	13.3	14.2	8.7	7.8	8.1	7.1	6.5	6.7	4.1	3.6	3.8
8	15.1	13.8	14.4	7.9	6.7	7.2	6.9	6.4	6.7	4.0	3.1	3.6
9	14.8	14.2	14.5	6.6	5.4	5.9	6.7	5.4	6.1	3.8	2.7	3.1
10	14.9	14.4	14.6	5.7	4.8	5.3	5.3	2.9	3.8	2.8	1.8	2.2
11	14.5	13.0	13.8	5.8	4.9	5.4	2.9	1.9	2.3	2.2	1.4	1.8
12	13.0	10.7	11.6	6.1	5.1	5.6	2.7	1.8	2.3	2.3	1.6	1.9
13	10.7	8.8	9.5	6.6	5.6	6.0	3.1	2.1	2.6	2.3	1.6	2.0
14	9.5	8.2	8.9	6.9	5.7	6.3	3.5	2.5	2.9	2.9	2.1	2.4
15	10.2	8.6	9.3	7.6	6.3	6.8	4.2	3.2	3.7	2.8	1.9	2.4
16	11.3	9.6	10.2	8.0	6.9	7.4	4.7	3.7	4.2	2.7	2.3	2.5
17	11.9	10.4	11.0	8.5	7.3	7.9	5.0	4.2	4.6	2.3	1.4	1.8
18	12.4	11.5	11.9	8.9	7.9	8.4	5.3	4.9	5.2	1.4	.2	.6
19	12.4	11.4	11.9	9.6	8.7	9.1	5.9	5.3	5.6	.5	.2	.3
20	12.2	10.5	11.2	9.5	8.7	9.1	5.7	5.3	5.6	.8	.1	.4
21	11.5	10.2	10.9	9.0	8.0	8.5	5.6	4.5	4.9	1.0	.2	.6
22	11.2	9.9	10.6	8.6	8.2	8.5	4.7	3.6	4.0	1.1	.3	.8
23	11.1	9.8	10.5	8.4	7.1	7.5	4.0	3.3	3.6	1.1	.4	.8
24	10.9	9.7	10.4	6.9	5.7	6.2	4.1	3.3	3.7	1.8	.6	1.1
25	10.9	9.8	10.4	6.6	5.6	6.1	4.0	3.1	3.5	2.7	1.6	2.0
26	11.0	9.9	10.5	6.8	6.4	6.6	3.6	2.8	3.2	3.4	2.3	2.8
27	11.0	10.4	10.7	6.6	5.6	6.0	3.4	2.7	3.1	3.4	2.8	3.1
28	10.9	10.2	10.5	6.2	5.4	5.9	3.4	2.5	2.9	4.4	3.3	3.8
29	11.2	10.5	10.8	6.1	5.5	5.7	3.3	2.5	2.9	4.5	4.0	4.2
30	11.2	10.6	10.9	5.8	5.0	5.4	3.2	2.5	2.9	4.4	3.9	4.2
31	11.1	10.3	10.5	---	---	---	3.1	2.2	2.6	4.4	4.2	4.4
MONTH	15.2	8.2	11.8	10.3	4.8	7.40	7.1	1.8	4.16	4.5	.1	2.42

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.9	3.8	4.3	5.0	3.9	4.5	9.4	6.5	7.8	13.9	12.9	13.5
2	5.4	4.3	4.8	5.5	4.4	5.0	10.2	7.9	9.1	13.6	12.8	13.2
3	6.1	5.0	5.4	6.1	4.8	5.5	10.1	8.1	9.2	12.7	11.4	12.2
4	6.1	5.8	6.0	6.6	5.4	6.1	10.0	9.0	9.4	13.1	10.8	11.9
5	6.1	4.7	5.2	7.4	6.0	6.7	10.0	8.0	8.9	14.0	12.2	13.1
6	5.4	4.2	4.8	8.0	6.5	7.3	10.0	8.9	9.4	14.9	13.1	14.0
7	5.3	4.2	4.8	8.2	6.7	7.4	11.4	9.5	10.4	15.4	13.4	14.6
8	5.2	4.2	4.7	8.4	7.6	8.1	11.7	9.8	10.8	15.4	13.5	14.5
9	5.6	4.4	5.0	8.6	7.9	8.2	12.0	10.1	11.1	15.7	13.9	14.8
10	6.0	4.9	5.4	8.2	7.5	8.0	11.8	10.1	11.1	15.9	14.3	15.1
11	6.7	5.6	6.0	8.1	7.3	7.8	11.5	10.2	10.8	15.5	14.1	15.0
12	7.4	6.2	6.8	8.4	7.3	7.9	10.5	9.7	10.1	15.8	14.4	15.2
13	7.9	6.7	7.3	8.6	7.5	8.2	9.9	8.0	9.1	16.2	14.1	15.3
14	7.9	6.8	7.5	8.6	7.6	8.2	10.2	8.0	9.2	16.1	14.9	15.5
15	6.7	5.5	5.9	8.6	7.2	7.9	11.9	9.2	10.5	15.9	14.9	15.4
16	5.6	5.2	5.4	7.2	6.0	6.7	13.1	10.4	11.7	14.9	13.8	14.4
17	5.3	4.2	4.8	7.3	6.1	6.7	13.7	11.5	12.6	15.1	13.6	14.3
18	5.3	4.4	5.0	7.7	5.9	6.8	13.2	11.9	12.5	15.0	14.3	14.7
19	5.1	4.2	4.7	7.7	6.7	7.2	11.9	10.9	11.3	14.7	13.8	14.3
20	4.4	3.6	4.0	7.3	5.8	6.6	11.2	9.4	10.4	14.6	13.8	14.2
21	4.6	3.3	4.0	7.7	6.7	7.2	11.2	9.6	10.5	14.1	13.2	13.7
22	5.1	3.9	4.5	7.6	6.5	7.1	12.0	9.9	11.0	15.8	13.3	14.4
23	4.9	4.2	4.5	6.7	5.0	6.0	13.0	10.7	11.8	15.9	14.7	15.4
24	4.4	3.5	3.9	7.0	5.8	6.4	13.8	11.8	12.8	16.1	14.1	15.1
25	4.7	3.3	3.9	7.3	5.4	6.5	14.7	12.5	13.7	15.9	13.5	14.5
26	4.7	4.2	4.5	7.8	5.9	6.9	15.0	13.5	14.2	14.4	12.7	13.6
27	4.5	3.7	4.2	7.5	6.3	7.0	14.8	13.4	14.1	14.7	13.1	14.0
28	4.6	3.6	4.3	6.9	5.3	6.2	15.0	13.6	14.3	15.0	13.5	14.4
29	---	---	---	6.6	5.5	6.1	14.7	13.4	14.2	15.9	14.3	15.1
30	---	---	---	6.4	4.4	5.5	14.3	13.5	14.0	17.4	15.2	16.3
31	---	---	---	7.6	4.9	6.2	---	---	---	18.2	16.4	17.3
MONTH	7.9	3.3	5.06	8.6	3.9	6.84	15.0	6.5	11.2	18.2	10.8	14.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.7	17.0	17.9	19.7	17.9	18.8	23.8	22.1	22.9	23.9	20.6	22.4
2	18.9	17.4	18.2	19.3	17.3	18.4	23.8	22.6	23.3	23.2	21.4	22.3
3	18.8	16.9	18.0	19.1	17.0	18.2	24.9	23.3	24.0	22.7	21.3	22.1
4	18.2	16.5	17.5	18.9	17.0	18.0	25.1	23.6	24.5	22.4	21.5	22.0
5	17.8	16.5	17.2	19.0	16.9	18.0	25.5	23.9	24.8	21.8	20.6	21.0
6	17.1	16.4	16.8	19.0	16.9	18.1	25.2	23.9	24.7	21.1	20.0	20.6
7	17.3	16.1	16.7	19.3	17.1	18.3	25.1	23.0	24.0	21.1	20.1	20.7
8	17.0	15.7	16.1	19.4	17.4	18.5	23.6	22.6	23.2	21.0	20.0	20.6
9	15.8	14.9	15.4	19.3	17.6	18.5	23.8	22.7	23.2	21.0	20.0	20.7
10	16.3	14.7	15.5	19.2	17.4	18.4	24.4	22.8	23.6	21.0	20.1	20.6
11	16.7	15.5	16.1	19.3	17.4	18.4	24.3	23.3	23.7	20.9	19.8	20.3
12	16.8	15.6	16.3	19.8	18.0	18.9	23.7	22.6	23.2	20.5	19.7	20.2
13	17.2	15.9	16.6	20.2	18.4	19.3	23.4	22.2	22.8	20.3	19.0	19.6
14	17.6	16.2	17.0	20.4	18.5	19.5	22.6	21.4	21.8	18.9	16.8	17.9
15	17.5	16.6	17.1	20.6	18.6	19.7	21.5	20.1	20.8	17.7	16.6	17.1
16	16.7	15.8	16.3	20.6	19.0	19.8	21.9	20.2	21.0	18.4	17.5	17.9
17	16.6	15.1	16.0	20.3	18.9	19.4	23.3	20.7	21.9	18.7	17.9	18.3
18	16.7	15.5	16.2	19.3	17.4	18.3	23.4	20.6	22.0	18.7	17.9	18.4
19	16.8	15.4	16.2	18.9	17.2	18.1	23.8	21.1	22.6	18.6	17.7	18.2
20	16.9	15.6	16.3	18.8	17.2	17.9	23.6	21.8	22.6	18.4	17.5	18.0
21	16.9	15.5	16.2	19.7	17.8	18.7	23.9	21.9	22.8	18.4	17.6	18.1
22	17.1	15.7	16.5	20.7	18.8	19.7	24.5	22.1	23.2	18.5	17.6	18.2
23	17.7	16.0	16.9	21.2	19.1	20.2	24.3	22.4	23.3	19.1	18.1	18.6
24	18.1	16.4	17.3	21.2	19.8	20.5	22.9	21.1	22.0	19.2	18.7	19.0
25	18.5	16.8	17.6	22.7	21.0	21.7	22.0	20.9	21.5	19.6	18.7	19.2
26	18.6	17.0	17.9	23.6	22.4	23.0	21.7	20.5	21.1	20.0	19.1	19.5
27	18.5	17.4	18.0	24.3	22.6	23.5	21.1	20.1	20.5	19.9	19.2	19.7
28	18.9	17.4	18.1	24.2	23.2	23.6	21.3	19.6	20.5	19.7	18.7	19.2
29	18.7	17.3	18.0	23.6	22.9	23.3	22.4	19.3	20.9	18.9	17.5	18.1
30	19.5	16.9	18.1	23.6	22.6	23.0	22.4	19.7	21.2	17.9	16.7	17.3
31	---	---	---	23.0	22.2	22.7	23.3	20.1	21.8	---	---	---
MONTH	19.5	14.7	16.9	24.3	16.9	19.8	25.5	19.3	22.6	23.9	16.6	19.5

09379500 SAN JUAN RIVER NEAR BLUFF, UT--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
DEC , 1986						
18...	1140	3800	5.5	--	227	2330
MAR , 1987						
23...	1200	4330	6.0	69	836	9770
MAY						
18...	1115	9590	15.0	60	935	24200
JUN						
23...	1100	8550	18.5	53	457	10500
JUL						
20...	1120	5880	17.5	38	510	8100

09379900 LAKE POWELL AT GLEN CANYON DAM, AZ

LOCATION.--Lat 36°56'12", long 111°29'00", in sec.24, T.41 N., R.8 E., Coconino County, Hydrologic Unit 14070006, at Glen Canyon Dam on Colorado River, 900 ft upstream from bridge on U.S. Highway 89, 1.4 mi downstream from Wahweap Creek, 2 mi northwest of Page, and 12 mi downstream from Utah-Arizona State line.

DRAINAGE AREA.--111,700 mi^2, approximately, including 3,959 mi^2 in Great Divide Basin in southern Wyoming, which is noncontributing.

PERIOD OF RECORD.--March 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 1, 1964, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete-arch gravity dam; storage began Mar. 13, 1963; dam completed September 1963. Total capacity, 27,000,000 acre-ft, consisting of the following: Dead storage, 1,998,000 acre-ft below elevation 3,370 ft--sill of outlet gates usable contents, 25,002,000 acre-ft between elevations 3,370 ft and 3,700 ft--top of conservation pool. Reservoir is used for power development, to provide storage replacement for upstream irrigation development, and to meet downstream requirements under the Colorado River Compact of 1922. Figures given herein represent usable contents; prior to Oct. 1, 1968, figures of total contents were published (prior to sealing of diversion tunnel July 7, 1965, all storage was usable).

COOPERATION.--Records provided by Bureau of Reclamation.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 26,373,000 acre-ft July 14, 1983, elevation, 3,708.34 ft; minimum since power pool level was reached (Aug. 16, 1964), 4,166,000 acre-ft Mar. 18, 1965, elevation, 3,490.76 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 24,755,000 acre-ft June 25, elevation, 3,698.47 ft; minimum, 21,544,000 acre-ft Mar. 5, elevation, 3,677.47 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

3,675	21,187,000	3,690	23,424,000
3,680	21,916,000	3,695	24,204,000
3,685	22,662,000	3,700	25,002,000

RESERVOIR STORAGE, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23362	23294	23107	22534	21765	21575	21840	22632	24151	24732	24353	23657
2	23354	23292	23084	22510	21744	21567	21856	22714	24167	24732	24334	23640
3	23355	23297	23058	22480	21730	21556	21856	22774	24189	24726	24317	23623
4	23352	23297	23034	22456	21714	21551	21883	22838	24206	24729	24301	23608
5	23348	23294	23022	22432	21692	21544	21891	22898	24236	24729	24282	23587
6	23342	23294	23006	22407	21676	21547	21905	22953	24273	24723	24254	23575
7	23342	23291	22991	22386	21664	21550	21916	23002	24309	24718	24246	23555
8	23342	23302	22970	22365	21656	21553	21933	23050	24355	24707	24236	23530
9	23342	23302	22958	22337	21649	21560	21945	23093	24374	24696	24220	23510
10	23329	23295	22932	22307	21643	21575	21958	23145	24417	24689	24205	23494
11	23354	23289	22909	22289	21636	21601	21974	23188	24461	24692	24197	23474
12	23355	23285	22898	22262	21635	21613	21993	23225	24512	24691	24165	23454
13	23357	23269	22866	22235	21629	21642	22026	23268	24557	24673	24149	23445
14	23362	23256	22848	22211	21627	21658	22054	23315	24592	24659	24116	23408
15	23365	23240	22825	22185	21632	21687	22079	23363	24627	24651	24083	23371
16	23360	23229	22810	22167	21632	21708	22097	23419	24652	24644	24055	23351
17	23360	23217	22789	22137	21624	21719	22118	23493	24675	24624	24021	23325
18	23354	23220	22774	22104	21624	21728	22136	23570	24700	24611	23986	23303
19	23357	23208	22757	22097	21627	21744	22176	23644	24721	24604	23945	23277
20	23357	23202	22735	22057	21611	21766	22222	23711	24734	24593	23909	23259
21	23349	23191	22727	22029	21605	21781	22254	23770	24742	24573	23867	23233
22	23349	23190	22698	22004	21599	21797	22284	23833	24745	24560	23841	23220
23	23346	23183	22683	21967	21594	21809	22317	23911	24748	24544	23823	23203
24	23340	23174	22676	21937	21576	21815	22340	23952	24752	24528	23788	23194
25	23337	23171	22674	21915	21570	21815	22378	24002	24755	24512	23792	23173
26	23332	23159	22662	21891	21569	21816	22408	24030	24752	24475	23747	23153
27	23325	23151	22649	21871	21567	21827	22447	24057	24752	24464	23721	23150
28	23317	23154	22634	21844	21570	21840	22486	24082	24752	24441	23707	23136
29	23308	23142	22611	21825	---	21846	22522	24107	24750	24420	23697	23121
30	23300	23125	22587	21805	---	21835	22578	24124	24739	24398	23686	23109
31	23303	---	22564	21778	---	21830	---	24135	---	24375	23672	---
MAX	23365	23302	23107	22534	21765	21846	22578	24135	24755	24732	24353	23657
MIN	23300	23125	22564	21778	21567	21544	21840	22632	24151	24375	23672	23109
(#)	3689.22	3688.06	3684.36	3679.07	3677.65	3679.42	3684.45	3694.57	3698.37	3696.09	3691.61	3687.95
(*)	-62	-178	-561	-786	-208	+260	+748	+1557	+604	-364	-703	-563

CAL YR 1986 . . . . . (*) -429
WTR YR 1987 . . . . . (*) -256

(#) Elevation, in feet, at end of month.
(*) Change in contents, in thousands of acre-feet.

09403600 KANAB CREEK NEAR KANAB, UT

LOCATION.--Lat 37°06'02", long 112°32'50", in NE¼NE¼SW¼ sec.5, T.43 S., R.6 W., Kane County, Hydrologic Unit 15010003, at upstream edge of left bridge pier on U.S. Highway 89, 300 ft upstream from Tiny Canyon and 3.5 mi north of Kanab.

DRAINAGE AREA.--198 mi^2.

PERIOD OF RECORD.--July 1959 to September 1968 (peaks only). January 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,060 ft from topographic map. A crest-stage gage was in operation at this site from July 22, 1959 to Sept. 30, 1968 at different datum.

REMARKS.--Records poor. No diversion above station for irrigation.

AVERAGE DISCHARGE.--8 years, 16.2 ft^3/s, 11,740 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,130 ft^3/s Aug. 20, 1984, maximum gage height, 8.50 ft Aug. 20, 1984; minimum recorded, 0.90 ft^3/s June 23, 26, 29, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge recorded by crest-stage gage, 3,030 ft^3/s Sept. 8, 1961, gage height, 19.80 ft at different datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 11	1000	*55	*3.79				

Minimum daily discharge, 5.2 ft^3/s Jan. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	13	5.6	14	15	e16	7.4	9.1	e6.6	e12	8.1
2	14	15	14	6.8	13	14	15	7.3	7.7	e6.2	e11	7.5
3	14	15	12	6.7	13	15	17	7.4	8.5	e6.0	e12	7.8
4	e14	13	13	5.7	13	14	16	6.5	7.9	e5.8	e11	7.6
5	e15	13	13	7.2	13	16	16	7.1	8.7	e6.1	e10	8.5
6	e15	14	14	5.6	e13	15	16	6.6	9.5	e6.5	e12	7.1
7	e15	14	12	6.9	e12	14	e16	6.5	9.5	e6.6	e11	7.1
8	e15	13	10	5.3	e11	15	e16	7.0	8.9	e6.8	e12	7.7
9	e15	15	9.8	5.2	e11	15	15	7.8	9.5	e7.0	e17	8.2
10	e16	13	9.3	5.6	e14	15	15	7.8	12	e7.2	e14	8.7
11	22	14	9.7	e5.6	e11	16	e15	8.5	7.1	e7.4	e13	e9.0
12	13	14	10	e5.6	e11	16	e14	8.9	7.6	e7.6	e20	9.3
13	14	13	10	e5.6	e13	17	13	9.9	8.1	e7.8	e17	9.9
14	15	11	10	5.6	e1[illegible]	16	14	11	7.1	e8.0	e14	8.8
15	16	12	11	e5.6	e14	18	12	10	7.9	e8.3	e13	8.0
16	14	13	11	e5.6	e12	18	12	11	6.4	e8.6	e11	8.3
17	15	12	9.9	e5.6	e11	19	12	12	7.0	e9.0	e10	9.5
18	15	13	9.0	e5.6	e11	19	11	15	e6.7	e10	e9.6	e9.6
19	15	13	8.7	e5.6	e11	20	13	16	e6.6	e10	e8.8	e9.8
20	16	12	8.6	e5.6	e11	20	11	17	e6.5	11	e8.4	10
21	16	11	7.7	e5.6	e11	19	10	15	e6.6	12	e10	e9.8
22	16	10	6.8	e5.6	e12	20	9.7	17	e6.4	10	e11	e9.6
23	14	12	5.5	e5.6	e12	20	e9.6	17	e6.6	12	e13	e9.4
24	16	13	8.8	e5.6	e13	18	e9.3	16	e6.4	10	e15	e9.3
25	17	12	7.7	e5.6	16	e18	e9.0	17	e6.0	e11	e13	9.2
26	16	12	7.6	e5.6	14	e18	e8.8	17	e6.8	e12	e11	8.2
27	16	12	7.6	5.5	15	e18	e8.4	15	e6.2	e13	e8.8	e8.6
28	15	11	7.7	6.1	15	19	7.9	12	e6.0	e13	8.3	8.8
29	15	12	7.8	6.2	---	18	8.1	11	e7.0	e13	7.2	7.7
30	14	12	6.6	9.6	---	e18	7.6	8.6	e6.8	e14	8.0	8.5
31	15	---	6.9	14	---	e17	---	6.3	---	e12	7.8	---
TOTAL	475	384	298.7	191.6	356	530	373.4	342.6	227.1	284.5	359.9	259.6
MEAN	15.3	12.8	9.64	6.18	12.7	17.1	12.4	11.1	7.57	9.18	11.6	8.65
MAX	22	16	14	14	16	20	17	17	12	14	20	10
MIN	13	10	5.5	5.2	11	14	7.6	6.3	6.0	5.8	7.2	7.1
AC-FT	942	762	592	380	706	1050	741	680	450	564	714	515

CAL YR 1986 TOTAL 4806.9 MEAN 13.2 MAX 81 MIN 3.0 AC-FT 9530
WTR YR 1987 TOTAL 4082.4 MEAN 11.2 MAX 22 MIN 5.2 AC-FT 8100

e Estimated

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT

LOCATION.--Lat 37°20'19", long 112°36'13", in SE¼NE¼NW¼ sec.14, T.40 S., R.7 W., Kane County, Hydrologic Unit 15010008, on right bank 50 ft downstream from Lydia's Creek, and 1.0 mi north of the town of Glendale on U.S. Highway 89.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and artificial concrete control. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions above station.

AVERAGE DISCHARGE.--21 years, 21.0 ft^3/s, 15,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s July 27, 1976, gage height, 4.14 ft; minimum, 3.2 ft^3/s Aug. 12, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 90 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 9	1700	*48	*1.64				

Minimum discharge, 3.8 ft^3/s June 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	19	18	18	18	19	19	11	9.0	6.5	7.9	8.1
2	20	19	18	18	18	20	17	9.8	8.5	6.4	8.9	7.8
3	18	18	18	18	18	20	20	9.2	9.3	6.4	10	8.8
4	17	18	18	18	18	20	22	9.2	8.8	6.2	8.8	8.9
5	17	18	19	19	18	22	20	8.8	8.5	7.0	8.7	8.3
6	17	19	20	18	18	22	21	8.4	8.9	7.0	8.8	8.7
7	17	18	20	19	18	23	22	8.2	8.7	6.8	15	8.2
8	17	19	19	18	18	24	22	7.7	7.7	6.8	12	7.3
9	17	19	18	18	18	25	21	7.4	7.5	6.8	18	6.8
10	18	19	17	18	19	25	21	8.1	7.8	7.1	14	7.2
11	24	19	18	18	19	24	21	8.0	7.3	7.1	9.7	6.9
12	20	19	18	18	25	24	16	7.7	6.6	7.3	10	7.0
13	19	19	18	18	23	25	18	8.0	6.3	7.2	11	6.5
14	18	19	18	18	26	25	19	8.3	5.4	7.3	9.7	6.7
15	18	19	19	e15	20	25	20	10	5.7	7.4	9.8	5.7
16	18	19	18	e15	19	25	20	13	5.2	7.7	9.7	5.2
17	18	19	19	e15	18	26	20	16	4.9	9.7	8.3	5.3
18	18	27	19	e15	18	25	20	12	5.1	8.7	7.2	5.3
19	18	22	20	17	18	26	16	11	5.5	8.8	7.3	5.0
20	19	19	20	e16	16	25	16	13	6.1	11	8.5	5.0
21	18	19	19	17	16	25	15	13	5.1	14	11	5.0
22	18	19	18	17	16	24	13	11	4.9	11	13	5.0
23	18	18	19	17	17	24	12	10	5.3	8.8	18	5.2
24	18	18	18	17	18	e24	11	10	6.2	8.4	18	5.4
25	18	18	18	17	18	e24	12	10	7.6	8.1	13	5.2
26	18	18	17	18	18	e23	11	11	7.4	8.8	12	5.3
27	18	18	18	18	18	e22	11	11	7.1	9.9	12	5.6
28	18	18	18	21	19	e21	11	12	7.2	9.6	10	5.1
29	18	18	17	19	---	e20	12	13	7.5	9.7	10	6.6
30	18	18	17	18	---	19	13	11	6.4	9.0	10	4.7
31	18	---	17	18	---	19	---	9.7	---	9.4	8.5	---
TOTAL	563	569	568	544	523	715	512	316.5	207.5	255.9	338.8	191.8
MEAN	18.2	19.0	18.3	17.5	18.7	23.1	17.1	10.2	6.92	8.25	10.9	6.39
MAX	24	27	20	21	26	26	22	16	9.3	14	18	8.9
MIN	17	18	17	15	16	19	11	7.4	4.9	6.2	7.2	4.7
AC-FT	1120	1130	1130	1080	1040	1420	1020	628	412	508	672	380

CAL YR 1986 TOTAL 1700.0 MEAN 18.5 MAX 27 MIN 17 AC-FT 3370
WTR YR 1987 TOTAL 5304.5 MEAN 14.5 MAX 27 MIN 4.7 AC-FT 10520

e Estimated

09405200 DEEP CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°31'18", long 112°53'01", in NE¼NE¼SE¼, sec.7, T.38 S., R.9 W., Kane County, Hydrologic Unit 15010008, on left bank 100 ft downstream from road, 14.5 mi southeast of Cedar City.

PERIOD OF RECORD.--June to September 1987.

GAGE.--Water-stage recorder. Altitude of gage is 7,680 ft from topographic map.

REMARKS.--Records good. Some diversion for irrigation above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 13 ft^3/s Aug. 8, gage height 8.31 ft; minimum, 0.34 ft^3/s July 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.94	.82	1.1
2	---	---	---	---	---	---	---	---	---	.87	.90	1.1
3	---	---	---	---	---	---	---	---	---	.82	1.2	.80
4	---	---	---	---	---	---	---	---	---	.75	1.1	1.0
5	---	---	---	---	---	---	---	---	---	.83	1.1	1.0
6	---	---	---	---	---	---	---	---	---	1.0	.98	1.5
7	---	---	---	---	---	---	---	---	---	.93	1.8	1.5
8	---	---	---	---	---	---	---	---	---	.84	2.5	1.2
9	---	---	---	---	---	---	---	---	---	.64	2.6	1.2
10	---	---	---	---	---	---	---	---	2.1	.76	2.1	1.0
11	---	---	---	---	---	---	---	---	1.5	.79	1.4	1.2
12	---	---	---	---	---	---	---	---	1.6	.66	2.2	1.2
13	---	---	---	---	---	---	---	---	1.6	.77	1.8	1.3
14	---	---	---	---	---	---	---	---	1.5	.65	1.3	1.2
15	---	---	---	---	---	---	---	---	1.4	.46	1.2	1.1
16	---	---	---	---	---	---	---	---	1.3	.48	1.1	1.0
17	---	---	---	---	---	---	---	---	1.3	2.3	1.1	1.1
18	---	---	---	---	---	---	---	---	1.2	.97	1.1	1.1
19	---	---	---	---	---	---	---	---	1.2	.92	1.1	1.1
20	---	---	---	---	---	---	---	---	1.1	2.2	1.3	1.3
21	---	---	---	---	---	---	---	---	1.0	2.1	1.4	1.3
22	---	---	---	---	---	---	---	---	1.1	1.2	1.1	1.2
23	---	---	---	---	---	---	---	---	1.0	1.0	2.0	1.1
24	---	---	---	---	---	---	---	---	1.1	.89	3.0	1.2
25	---	---	---	---	---	---	---	---	.91	.76	1.7	1.2
26	---	---	---	---	---	---	---	---	.91	.68	1.4	1.2
27	---	---	---	---	---	---	---	---	1.0	1.0	1.3	1.2
28	---	---	---	---	---	---	---	---	1.1	.89	1.3	1.1
29	---	---	---	---	---	---	---	---	1.1	1.2	1.1	1.1
30	---	---	---	---	---	---	---	---	.96	1.1	.96	1.0
31	---	---	---	---	---	---	---	---	---	.99	1.1	---
TOTAL	---	---	---	---	---	---	---	---	---	30.39	45.06	34.60
MEAN	---	---	---	---	---	---	---	---	---	.98	1.45	1.15
MAX	---	---	---	---	---	---	---	---	---	2.3	3.0	1.5
MIN	---	---	---	---	---	---	---	---	---	.46	.82	.80
AC-FT	---	---	---	---	---	---	---	---	---	60	89	69

09405250 EAST FORK DEEP CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°30'35", long 112°52'58", in NE¼SE¼NE¼ sec.18, T.38 S., R.9 W., Kane County, Hydrologic Unit 15010008, on right bank 400 ft downstream from road, 40 ft downstream from cunfluence of two streams, 15 mi southeast of Cedar City.

PERIOD OF RECORD.--June to September, 1987.

GAGE.--Water-stage recorder. Altitude of gage is 7,640 ft from topographic map.

REMARKS.--Records good. Some diversion for irrigation above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period June to September, 9.2 ft^3/s Aug. 24, gage height 7.74 ft; minimum 0.62 ft^3/s July 4, 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	.93	1.2	.97
2	---	---	---	---	---	---	---	---	---	1.0	1.1	.90
3	---	---	---	---	---	---	---	---	---	.77	1.4	.86
4	---	---	---	---	---	---	---	---	---	.80	1.2	.84
5	---	---	---	---	---	---	---	---	---	.69	.95	.95
6	---	---	---	---	---	---	---	---	---	.69	.98	1.0
7	---	---	---	---	---	---	---	---	---	.76	1.5	.91
8	---	---	---	---	---	---	---	---	---	.81	1.6	.87
9	---	---	---	---	---	---	---	---	1.6	.84	1.2	.90
10	---	---	---	---	---	---	---	---	1.7	.89	1.6	.94
11	---	---	---	---	---	---	---	---	2.0	.90	.85	1.3
12	---	---	---	---	---	---	---	---	2.1	.81	1.8	1.0
13	---	---	---	---	---	---	---	---	2.2	.85	1.1	.96
14	---	---	---	---	---	---	---	---	2.1	.91	1.2	1.1
15	---	---	---	---	---	---	---	---	2.0	1.1	1.2	1.2
16	---	---	---	---	---	---	---	---	1.4	2.2	1.1	1.3
17	---	---	---	---	---	---	---	---	1.4	2.3	1.0	1.3
18	---	---	---	---	---	---	---	---	1.5	1.1	.78	1.1
19	---	---	---	---	---	---	---	---	1.8	.84	.77	1.0
20	---	---	---	---	---	---	---	---	1.3	3.4	.86	1.0
21	---	---	---	---	---	---	---	---	1.4	2.4	1.1	1.0
22	---	---	---	---	---	---	---	---	1.3	1.5	1.1	1.1
23	---	---	---	---	---	---	---	---	1.4	1.1	1.3	1.2
24	---	---	---	---	---	---	---	---	1.3	1.1	5.3	1.2
25	---	---	---	---	---	---	---	---	1.0	1.3	1.8	1.3
26	---	---	---	---	---	---	---	---	1.2	1.2	1.7	1.3
27	---	---	---	---	---	---	---	---	1.3	1.2	1.6	1.4
28	---	---	---	---	---	---	---	---	1.1	1.3	1.5	1.4
29	---	---	---	---	---	---	---	---	1.4	1.6	1.2	1.3
30	---	---	---	---	---	---	---	---	1.1	1.5	1.2	1.4
31	---	---	---	---	---	---	---	---	---	1.4	1.2	---
TOTAL	---	---	---	---	---	---	---	---	---	38.19	42.39	33.00
MEAN	---	---	---	---	---	---	---	---	---	1.23	1.37	1.10
MAX	---	---	---	---	---	---	---	---	---	3.4	5.3	1.4
MIN	---	---	---	---	---	---	---	---	---	.69	.77	.84
AC-FT	---	---	---	---	---	---	---	---	---	76	84	65

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT

LOCATION.--Lat 37°12'35", long 112°58'40", in NW¼SW¼NW¼ sec.22, T.41 S., R.10 W., Washington County, Hydrologic Unit 15010008, on right bank in Zion National Park, 0.2 mi downstream from point of diversion of Springdale Canal, 0.5 mi downstream from Pine Creek, and 1.9 mi northeast of Springdale.

DRAINAGE AREA.--344 mi^2.

PERIOD OF RECORD.--May 1913 to June 1914, June to November 1923, April to June, August and September 1925 (fragmentary), October 1925 to current year. Published as Zion Creek near Springdale 1913-14 (flow of Springdale Canal not included) and as Mukuntuweap River near Springdale 1923, 1925-32.

GAGE.--Water-stage recorder. Altitude of gage is 3,970 ft from topographic map. May 13, 1913 to June 30, 1914, nonrecording gage at site 3.2 mi downstream at different datum. June 6, 1923 to Dec. 14, 1949, nonrecording gages at several sites within 0.8 mi of present site at various datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Figures given herein include Springdale Canal, which diverts water in NW¼NW¼ sec.22, T.41 S., R.10 W., for irrigation in vicinity of Springdale. Diversion for irrigation of about 1,400 acres above station.

AVERAGE DISCHARGE.--62 years, 105 ft^3/s, 76,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,150 ft^3/s Dec. 6, 1966, gage height, 12.98 ft, from rating curve extended above 2,000 ft^3/s on basis of drift measurement at gage height 6.7 ft, and a slope-area measurement at gage height 10.25 ft; minimum observed, 20 ft^3/s July 31, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft^3/s July 21; minimum daily, 34 ft^3/s July 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	59	46	50	57	58	77	323	94	e38	53	43
2	60	57	50	52	57	61	89	264	88	e39	49	41
3	62	55	51	48	58	61	100	230	86	e39	54	40
4	58	53	51	51	58	64	107	214	84	38	59	41
5	56	52	59	59	55	67	94	209	81	38	49	42
6	55	51	61	57	56	68	90	193	81	37	47	46
7	55	51	60	57	57	75	98	182	99	39	79	51
8	55	52	54	54	58	82	102	182	84	39	55	57
9	54	47	50	42	57	83	119	170	80	37	71	56
10	58	52	38	39	57	72	123	158	74	37	64	55
11	109	52	35	43	67	71	156	145	72	37	48	54
12	71	54	46	46	82	72	149	138	68	35	92	55
13	63	51	51	51	74	79	126	139	67	35	85	54
14	61	50	55	51	101	78	154	136	66	35	55	55
15	59	49	57	50	63	120	217	133	65	34	51	57
16	57	49	53	44	63	83	290	154	63	36	50	57
17	57	49	56	42	56	80	345	212	59	69	48	57
18	57	106	56	43	54	76	370	147	58	53	47	57
19	58	86	62	48	56	80	324	131	54	40	47	56
20	60	58	63	51	51	71	197	143	55	146	48	55
21	62	54	57	50	53	70	208	148	55	183	54	55
22	59	55	50	52	55	79	261	136	51	84	67	56
23	59	52	54	53	59	63	300	118	50	56	110	55
24	58	52	54	54	56	64	320	111	e50	51	178	57
25	57	54	50	54	56	64	305	106	e47	50	89	58
26	56	50	46	52	59	61	295	101	e45	77	71	58
27	55	49	49	53	49	65	288	106	e44	61	64	62
28	54	51	51	96	50	59	356	113	e46	52	51	61
29	54	54	46	65	---	63	364	113	e43	53	51	59
30	53	49	43	59	---	55	341	118	e41	68	47	59
31	55	---	41	58	---	68	---	102	---	74	45	---
TOTAL	1849	1653	1595	1624	1674	2212	6365	4875	1950	1710	1978	1609
MEAN	59.6	55.1	51.5	52.4	59.8	71.4	212	157	65.0	55.2	63.8	53.6
MAX	109	106	63	96	101	120	370	323	99	183	178	62
MIN	53	47	35	39	49	55	77	101	41	34	45	40
AC-FT	3670	3280	3160	3220	3320	4390	12620	9670	3870	3390	3920	3190

CAL YR 1986 TOTAL 35199 MEAN 96.4 MAX 472 MIN 35 AC-FT 69820
WTR YR 1987 TOTAL 29094 MEAN 79.7 MAX 370 MIN 34 AC-FT 57710

e Estimated

09405900 NORTH CREEK NEAR VIRGIN, UT

LOCATION.--Lat 37°14'14", long 113°09'01", in SE¼SW¼NE¼, sec. 12, T.41 S., R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 30 ft upstream from Bonnie Reeder Memorial Bridge, 3.2 mi north of town of Virgin and State Highway 9.

DRAINAGE AREA.--110 mi^2.

PERIOD OF RECORD.--December 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,680 ft from topographic map.

REMARKS.--Records fair except flows below 2 ft^3/s, which are poor. Two diversions for irrigation above station, the nearest approximately 200 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,630 ft^3/s, July 20, 1987, gage height, 9.34 ft from slope area measurement; no flow Sept. 6, 1986, minimum daily, Aug. 18, 19, 1987

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,630 ft^3/s, July 20, gage height, 9.34 ft from slope area measurement; minimum daily, no flow Aug. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.3	3.8	4.3	7.1	9.7	7.0	4.7	.92	.83	.39	1.3
2	3.5	4.3	3.8	4.2	6.7	12	9.7	3.8	1.2	.94	.35	1.9
3	3.4	5.1	3.8	4.1	6.7	13	7.2	2.7	1.7	1.0	9.5	3.0
4	3.2	5.2	3.8	5.1	6.7	14	24	2.0	1.9	.83	.98	6.2
5	3.1	3.1	3.7	8.4	6.4	14	8.3	1.3	1.9	.76	.53	7.6
6	2.9	3.0	5.8	9.4	6.1	14	8.2	1.7	2.4	.46	.55	2.1
7	2.9	2.8	4.8	8.6	6.1	18	11	1.6	24	e.38	2.2	4.3
8	2.5	2.5	4.4	5.8	6.0	24	8.3	1.6	2.2	.32	1.8	3.4
9	2.4	2.6	4.0	e4.9	5.4	21	5.6	1.7	2.7	.64	.76	2.4
10	2.8	2.9	3.9	e4.8	6.6	9.1	7.8	1.3	2.2	.70	.66	2.5
11	20	2.8	4.0	e5.0	7.3	7.3	9.3	2.9	2.1	.71	e2.2	2.4
12	3.9	2.5	3.9	5.3	24	6.4	8.6	3.1	1.9	.51	5.1	2.1
13	3.2	2.6	4.0	6.0	9.4	6.5	6.0	4.3	2.0	e.61	1.5	1.6
14	3.0	2.7	4.1	5.3	28	6.3	5.7	7.9	1.3	.72	.92	.76
15	2.9	2.7	4.0	e5.0	9.4	41	7.0	14	.90	.75	.75	1.1
16	2.8	2.9	4.2	e4.7	7.0	31	13	26	.83	1.1	1.3	1.3
17	2.8	2.9	4.5	e4.6	6.3	37	23	27	.92	31	.23	.89
18	3.0	27	4.3	e4.5	5.9	30	58	4.3	.93	1.7	.00	.89
19	3.2	12	4.2	e4.6	5.8	23	43	2.3	1.0	1.0	.00	.89
20	5.3	6.3	4.3	e4.6	5.6	17	19	23	1.0	66	.31	.89
21	3.6	5.8	4.3	e4.7	5.9	15	17	14	.80	58	.60	.84
22	3.3	6.5	4.2	e4.8	6.1	21	20	6.4	.85	4.4	.47	.83
23	3.2	5.6	4.2	4.9	6.5	17	21	4.1	.80	1.9	.97	.83
24	3.1	5.3	4.1	4.8	8.8	12	20	3.8	.74	1.3	4.2	.83
25	3.2	5.0	4.0	4.9	8.2	11	17	3.7	.66	.63	6.9	.78
26	3.3	5.0	4.2	4.8	10	7.7	12	3.2	.72	7.9	6.6	.77
27	2.6	5.1	4.4	5.6	10	7.9	7.8	3.6	.78	9.1	4.6	.77
28	2.3	4.6	4.2	e5.9	8.7	6.6	6.4	3.3	.55	.34	4.2	.77
29	2.6	3.9	4.1	e6.9	---	6.1	6.0	4.9	.36	e.61	6.9	1.3
30	2.7	3.7	4.1	9.3	---	6.1	5.6	3.0	.49	.35	.87	1.2
31	3.5	---	4.1	8.0	---	5.8	---	1.8	---	.32	e1.1	---
TOTAL	113.8	150.7	129.2	173.8	237.7	470.5	423.3	189.0	60.75	195.81	67.44	56.44
MEAN	3.67	5.02	4.17	5.61	8.49	15.2	14.1	6.10	2.02	6.32	2.18	1.88
MAX	20	27	5.8	9.4	28	41	58	27	24	66	9.5	7.6
MIN	2.3	2.5	3.7	4.1	5.6	5.8	5.6	1.3	.36	.32	.00	.76
AC-FT	226	299	256	345	471	933	840	375	120	388	134	112

CAL YR 1986 TOTAL 2733.63 MEAN 7.49 MAX 112 MIN .00 AC-FT 5420
WTR YR 1987 TOTAL 2268.41 MEAN 6.21 MAX 66 MIN .00 AC-FT 4500

e Estimated

09406000 VIRGIN RIVER AT VIRGIN, UT

LOCATION.--Lat 37°10'22", long 113°10'48", in SW¼NW¼SW¼ sec.23, T.41 S., R.12 W., Washington County, Hydrologic Unit 15010008, on right bank 1.0 mi east of Virgin and .25 mi downstream from North Creek.

DRAINAGE AREA.--934 mi².

PERIOD OF RECORD.--April 1909 to September 1971, October 1978 to current year. Fragmentary prior to 1926, monthly discharge published in WSP 1313.

REVISED RECORDS.--WSP 1313: 1942-43(M), 1947-48(M). WSP 1633: 1921(M), 1950-51.

GAGE.--Water-stage recorder. Altitude of gage is 3,500 ft from topographic map. At present location since July 18, 1985: from Oct. 1, 1978 to July 5, 1985, located 2 mi downstream on left bank, and from Dec. 19, 1949 to September 1971, located directly across from previous site, on right bank at different datum. Prior to Dec. 19, 1949, nonrecording gages at several sites within 3 mi of present site at various datums.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 2,800 acres above station.

AVERAGE DISCHARGE.--71 years, 206 ft³/s, 149,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,800 ft³/s Dec. 6, 1966, gage height, 18.00 ft from rating curve extended above 5,000 ft³/s on basis of one slope-area measurement and one float measurement; minimum observed, 22 ft³/s July 10, 1920 and June 11, 1921.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
July 20	2400	*7,200	*14.06	Aug. 7	1230	2,550	11.63

Minimum discharge, 42 ft³/s July 14, 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	121	117	117	130	133	150	375	128	59	80	73
2	121	120	117	120	130	138	161	315	120	58	75	75
3	125	121	118	117	130	141	173	279	116	58	84	71
4	117	123	116	120	130	144	206	255	113	57	82	72
5	114	121	121	137	130	149	180	250	110	57	78	69
6	112	117	133	139	129	150	168	239	124	54	76	68
7	106	116	133	140	129	157	179	225	169	54	417	69
8	110	116	126	126	128	186	182	222	121	52	106	75
9	105	113	123	114	128	189	189	211	111	50	107	73
10	110	115	111	111	128	157	193	201	104	47	106	74
11	267	116	103	114	142	149	220	189	98	48	82	76
12	152	116	113	118	195	150	221	184	94	47	112	77
13	126	115	115	123	160	156	193	190	92	46	176	77
14	121	114	120	124	213	154	213	198	91	45	89	77
15	117	115	123	121	152	239	268	259	89	45	77	80
16	113	116	123	112	139	205	339	224	84	46	74	81
17	111	116	123	107	132	189	400	308	82	123	69	79
18	113	236	124	111	130	191	456	236	81	71	67	77
19	112	215	128	117	128	181	432	194	83	57	67	79
20	120	137	129	117	126	162	270	231	78	e110	69	79
21	121	126	126	116	123	158	272	221	75	e130	80	78
22	121	129	119	122	126	171	319	183	73	e110	105	77
23	121	123	118	125	129	163	354	160	72	e100	213	79
24	121	120	122	126	136	152	377	145	71	e90	233	81
25	119	122	119	127	131	149	366	141	70	e88	132	84
26	112	121	115	126	138	143	349	142	68	e92	90	85
27	111	117	114	129	132	147	329	146	68	e94	101	87
28	107	118	116	237	127	142	390	151	70	88	87	87
29	107	119	116	168	---	141	414	154	65	84	85	87
30	108	121	114	139	---	138	389	151	62	89	86	87
31	116	---	112	133	---	143	---	137	---	140	81	---
TOTAL	3756	3795	3707	3953	3851	4967	8352	6516	2782	2289	3386	2333
MEAN	121	126	120	128	138	160	278	210	92.7	73.8	109	77.8
MAX	267	236	133	237	213	239	456	375	169	146	417	87
MIN	105	113	103	107	123	133	150	137	62	45	67	68
AC-FT	7450	7530	7350	7840	7640	9850	16570	12920	5520	4540	6720	4630

CAL YR 1986 TOTAL 57335 MEAN 157 MAX 689 MIN 58 AC-FT 113700
WTR YR 1987 TOTAL 49687 MEAN 136 MAX 456 MIN 45 AC-FT 98550

e Estimated

09406150 LAVERKIN CREEK NEAR LAVERKIN, UT

LOCATION.--Lat 37°12'17", long 113°17'03", in NE¼NE¼SW¼ sec. 23, T.41 S, R.13 W., Washington County, Hydrologic Unit 15010008, on left bank 1 mi west of LaVerkin, 0.25 mi upstream from confluence of LaVerkin Creek and Virgin River.

DRAINAGE AREA.--90 mi^2.

PERIOD OF RECORD.--December 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,040 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 305 ft^3/s, July 17, 1987, gage height 6.00 ft; minimum discharge, 0.41 ft^3/s July 3, 4, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 305 ft^3/s July 17, gage height 6.00 ft from rating curve extended above 60 ft^3/s on basis of slope conveyance study; minimum discharge, 0.52 ft^3/s Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.0	4.6	5.5	3.3	8.5	11	9.0	9.0	2.5	2.5	2.8	1.0
2	e7.8	4.4	5.5	3.3	8.1	12	13	6.5	2.7	2.1	2.4	.75
3	7.7	4.6	5.5	3.3	7.4	13	16	7.3	2.3	1.5	2.2	.68
4	7.3	4.6	5.5	3.3	6.9	15	28	7.5	2.7	1.4	2.1	.68
5	6.9	4.6	5.5	3.3	6.7	12	15	6.5	2.6	1.8	2.6	.68
6	6.9	4.6	6.4	3.3	6.2	13	12	5.2	2.4	2.2	2.1	.77
7	6.8	4.6	9.1	3.5	6.2	12	13	5.8	11	2.5	2.3	.71
8	6.4	4.6	6.8	3.5	6.2	12	12	5.8	4.3	2.0	e13	.68
9	5.6	4.6	6.3	3.4	6.2	12	12	6.5	1.9	2.2	e5.0	.75
10	5.5	4.6	3.5	3.1	6.2	12	14	6.9	2.5	1.7	3.9	.92
11	22	4.6	5.3	e2.9	6.2	11	15	7.3	2.0	1.4	2.9	1.9
12	9.2	4.6	8.0	e3.0	6.2	11	15	8.5	2.2	1.4	9.8	2.2
13	6.6	4.8	7.6	e3.0	6.2	12	13	7.7	2.2	1.3	13	1.7
14	6.5	5.0	7.3	e2.9	6.2	11	12	6.5	2.5	1.4	4.3	2.2
15	6.4	4.8	7.9	e3.2	6.2	35	13	25	e2.0	1.4	3.0	1.2
16	6.2	4.6	7.3	e2.9	6.2	38	15	18	2.0	7.0	2.3	.88
17	6.2	4.6	7.3	e2.7	6.2	23	17	26	1.9	58	1.6	.95
18	6.2	20	7.2	e2.9	5.8	33	21	11	2.4	8.4	2.0	1.8
19	6.2	17	6.9	e3.1	5.8	29	21	9.0	2.5	3.2	.73	.84
20	9.3	6.2	6.9	e2.9	5.6	13	15	15	1.9	7.0	.88	.68
21	7.4	5.5	6.9	e4.0	6.7	15	13	26	1.8	20	7.4	.60
22	6.6	5.6	6.7	e5.2	5.8	13	14	9.7	2.0	6.0	5.5	1.7
23	6.5	5.5	6.5	e6.6	5.8	15	13	7.9	2.0	3.4	27	2.0
24	5.9	5.5	e6.0	e7.4	6.8	12	13	7.2	1.4	3.0	51	1.0
25	5.1	5.5	e6.4	9.1	11	14	12	7.3	1.3	e3.0	8.4	3.7
26	4.6	5.5	6.9	11	9.9	11	12	9.0	1.3	e3.0	6.8	3.1
27	4.0	5.7	4.9	9.5	8.6	12	15	8.6	1.3	e2.9	4.0	2.5
28	4.0	5.8	4.8	20	9.7	9.6	11	9.0	1.3	e2.9	3.8	2.5
29	4.1	5.8	4.3	22	---	8.5	10	7.7	1.6	3.0	3.3	2.7
30	4.3	5.8	4.2	13	---	8.3	9.8	4.4	2.2	3.1	2.6	3.0
31	4.6	---	3.7	10	---	7.3	---	2.5	---	3.1	2.9	---
TOTAL	205.8	178.2	192.6	180.6	193.5	465.7	423.8	299.3	72.7	163.8	201.61	44.77
MEAN	6.74	5.94	6.21	5.83	6.91	15.0	14.1	9.65	2.42	5.28	6.50	1.49
MAX	22	20	9.1	22	11	38	28	26	11	58	51	3.7
MIN	4.0	4.4	3.5	2.7	5.6	7.3	9.0	2.5	1.3	1.3	.73	.60
AC-FT	414	353	382	358	384	924	841	594	144	325	400	89

CAL YR 1986 TOTAL 4030.62 MEAN 11.0 MAX 112 MIN .52 AC-FT 7990
WTR YR 1987 TOTAL 2625.35 MEAN 7.19 MAX 58 MIN .60 AC-FT 5210

e Estimated

09407000 ASH CREEK ABOVE TOQUERVILLE, UT

LOCATION.--Lat 37°16'00", long 113°16'43", in SE¼SW¼NE¼ sec.35, T.40 S., R.13W., Washington County, Hydrologic Unit 15010008, on left bank approximately 1 mi upstream from Toquerville.

DRAINAGE AREA.--190 mi^2.

PERIOD OF RECORD.--October 1941 to September 1942, December 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,450 ft from topographic map. October 1941 to September 1942 at approximately the same site at different datum.

REMARKS.--Records fair.

COOPERATION.--Gage-height readings and discharge measurements for 1942 water year provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 482 ft^3/s, May 15, 1987, gage height, 8.20 ft; no flow for extended periods each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 482 ft^3/s, May 15, gage height, 8.20 ft; no flow many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.00	.00	.00	.00	e3.5	6.4	25	1.5	.00	.00	.00
2	.09	.00	.00	.00	.00	e3.8	7.2	21	1.3	.00	.00	.00
3	.05	.00	.00	.00	.00	e3.9	7.8	19	1.0	.00	.00	.00
4	.03	.00	.00	.00	.00	e4.1	12	15	.60	.00	.00	.00
5	.00	.00	.00	.09	.00	e4.6	15	14	.52	.00	.00	.00
6	.00	.00	.00	.07	.41	e4.9	14	9.5	.59	.00	.00	.00
7	.00	.00	.00	.00	2.5	e4.6	19	7.0	2.5	.00	.00	.00
8	.00	.00	.00	.00	8.5	e4.9	21	6.6	1.2	.00	.00	.00
9	.00	.00	.00	.00	8.0	e4.3	24	5.7	.81	.00	.02	.00
10	.00	.00	.00	.00	e7.1	e4.5	28	6.3	.64	.00	.00	.00
11	.13	.00	.00	.00	e5.0	e4.7	32	10	.40	.00	.00	.00
12	.24	.00	.00	.00	e5.3	4.4	31	9.6	.36	.00	.00	.00
13	7.6	.00	.00	.00	e5.5	4.0	27	8.9	.25	.00	.00	.00
14	.44	.01	.00	.00	e5.6	3.7	25	9.0	.19	.00	.00	.00
15	.00	.01	.00	.00	e5.7	10	29	22	.13	.00	.00	.00
16	.00	.01	.00	.00	e5.9	12	35	7.2	.00	.00	.00	.00
17	.00	.01	.00	.00	e6.2	14	37	6.5	.00	.71	.00	.00
18	.00	.66	.00	.00	e5.3	13	38	4.6	.00	.00	.00	.00
19	.00	.56	.00	.00	e4.9	13	37	3.8	.00	.00	.00	.00
20	.00	.07	.00	.00	e4.5	25	31	4.0	.00	1.8	.00	.00
21	.00	.01	.00	.00	e4.4	10	25	5.2	.00	5.9	.00	.00
22	.00	.01	.00	.00	e4.0	10	23	3.6	.00	.69	.00	.00
23	.00	.01	.00	.00	e3.8	10	24	3.4	.00	.36	7.7	.00
24	.00	.01	.00	.00	e3.7	9.1	25	2.9	.00	.14	3.7	.00
25	.00	.00	.00	.00	e3.6	11	25	2.7	.00	.0	.07	1.0
26	.00	.00	.00	.00	e3.5	8.0	28	2.7	.00	.00	.01	1.3
27	.00	.00	.00	.00	e3.2	8.4	28	2.4	.00	.00	.07	.31
28	.00	.00	.00	.00	e3.3	6.5	29	2.6	.00	.00	.00	.11
29	.00	.00	.00	.00	---	6.1	27	2.7	.00	.00	.00	.00
30	.00	.00	.00	.00	---	5.3	26	2.4	.00	.00	.00	.00
31	.00	---	.00	.00	---	5.9	---	1.9	---	.00	.00	---
TOTAL	8.71	1.37	.00	.16	109.91	237.2	736.4	247.2	11.99	9.60	11.57	2.72
MEAN	.28	.05	.00	.01	3.93	7.65	24.5	7.97	.40	.31	.37	.09
MAX	7.6	.66	.00	.09	8.5	25	38	25	2.5	5.9	7.7	1.3
MIN	.00	.00	.00	.00	.00	3.5	6.4	1.9	.00	.00	.00	.00
AC-FT	17	2.7	.0	.3	218	470	1460	490	24	19	23	5.4

CAL YR 1986 TOTAL 584.83 MEAN 1.61 MAX 52 MIN .00 AC-FT 1160
WTR YR 1987 TOTAL 1376.82 MEAN 3.77 MAX 38 MIN .00 AC-FT 2730

e Estimated

09408000 LEEDS CREEK NEAR LEEDS, UT

LOCATION.--Lat 37°16'03", long 113°22'12", in SW¼SE¼NE¼ sec.36, T.40 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank 1,150 ft upstream from Leeds Ditch diversion, 2.1 mi north of Leeds, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi^2.

PERIOD OF RECORD.--October 1915 to June 1920 (fragmentary) in reports of Geological Survey; October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,000 ft from topographic map. Prior to June 1920, at various sites and datums about 600 ft downstream; Oct. 28, 1964 to Aug. 20, 1987, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records poor. One diversion above station for domestic use.

AVERAGE DISCHARGE.--23 years, 7.54 ft^3/s, 5,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s Aug. 6, 1967, gage height, 5.78 ft, site and datum then in use; minimum recorded, 0.23 ft^3/s Jan. 3, 1971.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1964, reached a stage of 6.00 ft former site and datum, discharge 2,980 ft^3/s from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 10	1930	68	2.67	July 20	unknown	506	5.00
May 15	1800	1,070	6.50	Aug. 24	unknown	*1,170	*6.70

Minimum daily discharge, 2.6 ft^3/s Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	3.9	3.2	e3.2	e3.1	3.5	4.4	6.7	e7.9	5.8	5.8	4.1
2	4.6	3.9	3.2	e3.2	e3.0	3.7	4.7	6.8	e7.8	5.7	5.7	4.1
3	4.7	3.9	3.2	e3.5	e3.2	3.9	6.0	6.6	e7.8	5.6	6.9	4.0
4	4.7	4.2	3.3	e3.8	e3.1	4.4	7.5	6.7	e7.8	5.4	6.1	4.1
5	4.9	3.9	3.4	e3.4	e3.0	4.6	7.0	6.8	e7.9	5.3	7.3	4.1
6	e6.0	3.9	4.0	e3.4	e3.1	4.2	6.7	6.9	e9.8	5.1	6.8	4.0
7	e10	3.9	3.5	e3.2	e3.2	4.0	6.6	7.1	e12	5.0	5.9	3.7
8	e14	3.9	3.0	e3.0	e3.2	4.8	6.5	7.2	e9.7	5.0	7.1	3.6
9	e20	3.9	3.0	e2.9	e3.2	3.5	6.7	7.3	e8.6	4.9	5.5	3.6
10	e22	3.8	e3.0	e2.8	e3.1	3.9	7.2	7.1	8.0	4.8	5.4	3.5
11	e5.0	3.7	e3.0	e2.9	e3.2	3.7	7.8	7.2	7.7	4.8	5.2	3.5
12	4.3	3.7	e2.9	e3.2	e3.0	3.7	7.7	7.3	8.0	4.7	5.1	3.4
13	4.2	3.7	3.0	e3.2	e3.2	3.7	7.3	7.1	7.9	4.6	5.0	3.6
14	4.2	3.7	2.9	e2.9	3.5	3.7	6.9	8.1	7.8	4.5	4.9	3.5
15	4.2	3.7	2.9	e3.0	3.2	5.1	6.5	e25	7.8	4.7	4.8	3.6
16	4.2	3.7	2.9	e2.8	3.0	4.6	6.4	e17	7.7	7.9	4.6	3.9
17	4.2	3.7	3.0	e2.6	3.2	5.7	6.6	e19	7.8	e21	4.4	3.9
18	4.2	5.3	2.9	e2.8	3.2	7.8	6.7	e9.0	7.7	e9.8	4.3	3.8
19	4.2	3.7	2.9	e2.9	3.2	6.5	6.8	e8.2	7.6	e17	4.2	3.8
20	4.2	3.7	3.1	e2.8	3.4	5.6	6.8	e11	7.4	e19	4.3	3.7
21	4.2	3.6	2.9	e3.1	3.4	5.7	6.7	e16	7.2	e7.6	5.3	3.5
22	4.2	3.5	2.8	e3.4	3.4	6.0	6.4	e9.0	7.2	e7.0	4.2	3.5
23	4.2	3.5	e2.9	e3.6	3.5	5.2	6.2	e7.4	7.0	e6.9	e8.0	3.5
24	4.2	3.5	e3.0	e3.2	3.5	5.5	6.1	e8.0	6.9	e6.9	e56	3.5
25	4.0	3.5	e3.1	e3.5	3.7	6.4	6.0	e9.8	6.6	e6.8	e10	e5.2
26	3.9	3.5	e3.2	e3.6	3.7	6.1	5.9	e8.9	6.5	e6.7	e5.6	3.4
27	3.9	3.5	e3.3	e3.7	3.9	5.5	6.0	e8.9	6.3	e6.6	4.7	3.5
28	3.9	3.3	e3.4	e3.6	3.9	4.9	6.1	e8.8	6.2	e6.6	5.2	3.2
29	3.9	3.2	e3.2	e3.6	---	4.6	6.4	e8.7	6.1	e6.5	4.6	3.5
30	3.9	3.2	e3.5	e3.5	---	4.6	6.5	e9.6	6.0	6.0	4.3	3.8
31	3.9	---	e3.4	e3.4	---	4.4	---	e8.2	---	5.9	4.2	---
TOTAL	182.8	112.1	97.0	99.7	92.3	149.5	195.1	290.4	230.7	224.1	221.4	112.1
MEAN	5.90	3.74	3.13	3.22	3.30	4.82	6.50	9.37	7.69	7.23	7.14	3.74
MAX	22	5.3	4.0	3.8	3.9	7.8	7.8	25	12	21	56	5.2
MIN	3.9	3.2	2.8	2.6	3.0	3.5	4.4	6.6	6.0	4.5	4.2	3.2
AC-FT	363	222	192	198	183	297	387	576	458	445	439	222

CAL YR 1986 TOTAL 2156.7 MEAN 5.91 MAX 60 MIN 2.8 AC-FT 4280
WTR YR 1987 TOTAL 2007.2 MEAN 5.50 MAX 56 MIN 2.6 AC-FT 3980

e Estimated

09408150 VIRGIN RIVER NEAR HURRICANE, UT

LOCATION.--Lat 37°09'45", long 113°23'42", in NE¼NE¼SW¼ sec.2, T.42 S., R.14 W., Washington County, Hydrologic Unit 15010008, on left bank at downstream side of bridge on State Highway 17, 1.8 mi downstream from Quail Creek and 6.2 mi west of Hurricane.

DRAINAGE AREA.--1,499 mi^2.

PERIOD OF RECORD.--March 1967 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 2,760 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Beginning in June 1985 flow is diverted from the river into a pipeline (capacity approximately 250 ft^3/s), at a point approximately 20 miles upstream, into Quail Creek Reservoir, an offstream site, located about 1.0 mile above the gage, capacity 40,000 acre-feet.

AVERAGE DISCHARGE.--18 years (water years 1968-85), 246 ft^3/s, 178,200 acre-ft/yr (prior to diversion to Quail Creek Reservoir).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,700 ft^3/s Mar. 5, 1978, gage height, 16.28 ft; minimum, 23 ft^3/s Aug. 22, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1909, 17.34 ft Dec. 6, 1966, from floodmarks; discharge, 20,100 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 21	0330	*4,860	*7.80	Aug. 7	1630	2,620	5.97

Minimum discharge, 23.6 ft^3/s Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e490	124	137	34	62	77	62	365	148	80	69	86
2	e520	113	129	39	68	86	78	292	141	82	63	90
3	500	115	130	39	63	91	93	246	144	79	59	88
4	486	118	135	37	60	134	148	211	143	78	73	90
5	478	113	94	58	58	110	162	192	140	80	71	90
6	475	109	32	73	73	113	178	151	137	78	58	83
7	466	101	38	72	65	121	176	100	169	78	339	77
8	464	102	36	60	78	141	174	102	141	83	132	77
9	455	106	31	47	93	157	179	93	133	76	79	78
10	371	106	32	39	110	100	191	91	135	74	63	81
11	501	144	23	42	120	84	212	121	111	71	60	87
12	408	264	28	47	131	102	231	127	87	95	82	93
13	303	256	31	49	109	171	179	124	75	94	147	90
14	188	252	33	46	154	83	134	123	80	68	70	89
15	152	183	38	51	111	139	169	245	95	65	53	86
16	218	111	42	63	81	191	251	194	94	64	62	73
17	323	111	42	85	79	134	337	279	96	157	61	64
18	317	198	45	49	72	169	446	222	101	77	64	65
19	312	310	42	70	71	134	499	179	105	78	71	65
20	318	166	52	71	72	107	322	206	102	382	70	65
21	267	129	58	69	84	98	280	224	100	947	72	65
22	227	133	51	69	81	106	327	171	98	144	90	64
23	220	131	45	76	74	115	344	153	93	54	333	73
24	180	137	40	170	81	131	266	142	81	38	405	76
25	129	131	31	138	105	96	252	143	84	36	179	71
26	121	136	29	64	86	87	243	148	89	36	75	72
27	112	132	39	60	82	68	223	169	84	128	74	71
28	105	138	34	135	71	60	310	138	87	98	62	64
29	104	132	30	157	---	60	363	162	95	57	79	64
30	108	135	32	82	---	58	364	157	81	59	86	63
31	110	---	35	67	---	55	---	156	---	118	83	---
TOTAL	9428	4436	1594	2158	2394	3378	7193	5426	3269	3654	3284	2300
MEAN	304	148	51.4	69.6	85.5	109	240	175	109	118	106	76.7
MAX	520	310	137	170	154	191	499	365	169	947	405	93
MIN	104	101	23	34	58	55	62	91	75	36	53	63
AC-FT	18700	8800	3160	4280	4750	6700	14270	10760	6480	7250	6510	4560

CAL YR 1986 TOTAL 67463 MEAN 185 MAX 729 MIN 23 AC-FT 133800
WTR YR 1987 TOTAL 48514 MEAN 133 MAX 947 MIN 23 AC-FT 96230

e Estimated

09408195 FORT PIERCE WASH NEAR ST. GEORGE, UT

LOCATION.--Lat 37°00'03", long 113°28'05", in SE¼NE¼SW¼ sec.31, T.43S, R.14W., Washington County, Hydrologic Unit 15010009, on left bank upstream of road crossing, and approximately 10 mi southeast of St. George, Ut.

DRAINAGE AREA.--700 mi^2.

PERIOD OF RECGRD.--September 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,800 ft from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 721 ft^3/s sometime during period July 15-21, 1987, gage height 7.10 ft; no flow for extended periods most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 721 ft^3/s sometime during period July 15-21, gage height 7.10 ft, from floodmarks; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.39	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	e.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	e.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	e.12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	e.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	e10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	e20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	e1.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	e20	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	e4.8	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	e7.8	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	e1.0	.00	e30	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.90	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	e20	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.90	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e7.0	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e5.0	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e20
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.70
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	32.06	.00	.00	.00	.00	.00	.00	13.60	.00	51.80	32.00	20.70
MEAN	1.03	.00	.00	.00	.00	.00	.00	.44	.00	1.67	1.03	.69
MAX	20	.00	.00	.00	.00	.00	.00	7.8	.00	30	20	20
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	64	.0	.0	.0	.0	.0	.0	27	.0	103	63	41

CAL YR 1986 TOTAL 41.57 MEAN .11 MAX 20 MIN .00 AC-FT 82
WTR YR 1987 TOTAL 150.16 MEAN .41 MAX 30 MIN .00 AC-FT 298

e Estimated

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT

LOCATION.--Lat 37°23'00" long 113°28'57", in NW¼SE¼NE¼ sec.24, T.39 S., R.15 W., Washington County, Hydrologic Unit 15010008, in Dixie National Forest, on right bank 150 ft upstream from highway bridge, 0.6 mi downstream from Pine Valley Reservoir, 1.6 mi southeast of town of Pine Valley, and 2.5 mi upstream from Grass Valley Creek.

DRAINAGE AREA.--18.7 mi^2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,640 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow slightly regulated by Pine Valley Reservoir. No diversion above station.

AVERAGE DISCHARGE.--28 years, 10.2 ft^3/s, 7,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 776 ft^3/s Dec. 6, 1966, gage height, 6.85 ft; minimum, 0.37 ft^3/s Mar. 30, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2240	*56	*2.37				

Minimum daily discharge, 1.4 ft^3/s Jan. 16, 17, 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	2.8	e2.5	2.0	1.6	1.8	4.7	33	12	4.7	3.3	2.1
2	e3.5	2.7	2.6	e2.0	1.6	2.1	7.0	28	11	4.6	3.6	2.1
3	e3.4	2.6	e2.5	2.0	1.6	2.6	8.3	25	11	4.4	3.4	2.1
4	e3.4	2.6	2.5	2.0	1.6	3.5	7.5	24	11	4.3	3.2	2.1
5	e3.3	2.6	2.6	e2.1	1.5	3.6	7.1	24	10	4.2	3.1	2.2
6	3.3	2.5	2.7	2.1	1.6	3.6	7.2	23	11	4.1	3.0	2.2
7	3.3	2.5	2.7	e2.1	1.6	3.6	7.5	24	12	3.8	2.9	2.1
8	3.3	2.5	2.6	e1.8	1.6	3.9	8.3	25	10	3.9	3.0	2.0
9	3.2	2.5	2.5	e1.6	1.6	3.7	10	25	10	3.8	2.9	2.0
10	3.2	2.5	e2.3	e1.5	1.6	3.6	12	23	9.5	3.7	2.8	1.9
11	4.9	2.4	e2.2	e1.6	1.6	3.6	14	22	9.0	3.6	2.7	1.9
12	4.5	2.4	e2.2	e1.8	1.8	3.7	14	22	8.6	3.7	2.7	1.8
13	4.1	2.4	2.4	e1.6	1.9	4.0	12	22	8.4	3.7	2.6	2.2
14	3.9	2.4	2.4	e1.5	e2.2	3.9	14	27	8.2	3.7	2.5	2.1
15	3.8	2.4	2.3	e1.5	1.9	4.2	18	32	7.9	3.6	2.5	2.0
16	3.6	2.3	2.3	e1.4	1.8	4.0	21	39	7.6	4.8	2.4	1.9
17	3.4	2.3	2.3	e1.4	1.7	3.7	24	37	7.3	6.7	2.4	1.9
18	3.4	3.3	2.3	e1.7	e1.6	e3.7	25	29	6.8	4.4	2.3	1.8
19	3.4	3.4	2.3	e1.5	e1.6	e3.7	23	25	6.6	3.9	2.3	1.8
20	3.4	3.0	2.3	e1.4	e1.6	e3.7	19	24	6.4	4.3	2.4	1.8
21	3.3	3.0	e2.2	e1.5	e1.5	e3.6	17	22	6.2	6.8	2.4	1.8
22	3.1	3.0	e2.0	e1.6	e1.5	e3.6	19	20	6.0	4.7	2.3	1.8
23	3.1	2.9	e1.9	e1.6	e1.5	e3.6	23	18	5.9	3.9	2.4	1.8
24	3.0	2.9	e1.9	e1.6	e1.5	e3.5	27	17	5.7	3.8	4.2	1.8
25	2.9	2.9	e1.9	e1.6	e1.6	e3.3	31	16	5.5	3.7	2.7	1.8
26	2.9	2.7	e1.9	e1.7	e1.6	e3.3	35	16	5.5	3.7	2.5	1.8
27	2.8	2.7	e1.9	e1.6	1.7	3.3	36	15	5.3	3.8	2.4	1.8
28	2.7	2.7	e1.9	e1.8	1.7	3.5	39	14	5.2	3.6	2.4	1.8
29	2.8	2.7	e1.9	1.7	---	3.3	38	14	5.1	3.5	2.3	1.8
30	2.7	2.6	e1.9	1.6	---	e3.3	37	13	4.9	3.5	2.3	1.7
31	2.8	---	e1.9	1.6	---	3.4	---	12	---	3.4	2.2	---
TOTAL	103.9	80.2	69.8	52.5	46.2	107.9	565.6	710	239.6	128.3	84.1	57.9
MEAN	3.35	2.67	2.25	1.69	1.65	3.48	18.9	22.9	7.99	4.14	2.71	1.93
MAX	4.9	3.4	2.7	2.1	2.2	4.2	39	39	12	6.8	4.2	2.2
MIN	2.7	2.3	1.9	1.4	1.5	1.8	4.7	12	4.9	3.4	2.2	1.7
AC-FT	206	159	138	104	92	214	1120	1410	475	254	167	115

CAL YR 1986 TOTAL 2318.8 MEAN 6.35 MAX 25 MIN 1.8 AC-FT 4600
WTR YR 1987 TOTAL 2246.0 MEAN 6.15 MAX 39 MIN 1.4 AC-FT 4450

e Estimated

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT
(Transmountain diversion)

LOCATION.--Lat 37°28'04", long 113°28'21", in SW¼SE¼NW¼ sec.19, T.38 S., R.14 W., Washington County, Hydrologic Unit 15010008, on right bank 0.2 mi downstream from outlet of diversion tunnel and 6 mi southeast of Pinto.

PERIOD OF RECORD.--October 1953 to September 1962 (monthly discharge only, October 1953 to September 1960), October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft from topographic map. Prior to September 1962, at site 600 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow at this station is seasonal occurring during the snowmelt period and heavy storm periods. This is a transmountain diversion from a tributary of Santa Clara River in Colorado River Basin to Pinto Creek in Escalante Valley in the Great Basin.

AVERAGE DISCHARGE.--27 years (1953-62, 1969-87), 3.70 ft^3/s, 2,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft^3/s May 24, 1983, gage height, 2.58 ft; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 86 ft^3/s Apr. 17, gage height, 2.11 ft; no flow for extended periods during year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	e3.0	34	3.5	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	e4.4	27	3.1	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	e5.1	21	2.9	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	e6.0	17	2.4	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	e7.1	16	1.7	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	e9.4	16	1.9	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	e12	16	3.5	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	e15	17	2.7	.00	.00	.00
9	.00	.00	.00	.00	.00	e1.5	e17	17	2.5	.00	.00	.00
10	.00	.00	.00	.00	.00	e1.2	20	17	2.5	.00	.00	.00
11	.00	.00	.00	.00	.00	e1.4	26	17	2.2	.00	.00	.00
12	.00	.00	.00	.00	.00	e1.8	23	15	1.5	.00	.00	.00
13	.00	.00	.00	.00	6.4	e2.8	20	15	1.3	.00	.00	.00
14	.00	.00	.00	.00	.82	e2.2	24	14	1.1	.00	.00	.00
15	.00	.00	.00	.00	.74	e2.3	32	15	.84	.00	.00	.00
16	.00	.00	.00	.00	.28	e2.1	42	21	.60	.00	.00	.00
17	.00	.00	.00	.00	.28	e1.9	50	19	.46	.00	.00	.00
18	.00	.00	.00	.00	.00	e1.7	47	16	.32	.00	.00	.00
19	.00	.00	.00	.00	.00	e2.0	42	14	.26	.00	.00	.00
20	.00	.00	.00	.00	.00	e1.9	31	13	.19	.00	.00	.00
21	.00	.00	.00	.00	.00	e1.7	27	13	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	e1.6	29	12	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	e1.6	32	10	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	e1.5	34	9.2	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	e1.5	37	8.3	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	e1.5	40	7.6	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	e1.4	38	7.0	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	e1.4	39	6.4	.00	.00	.00	.00
29	.00	.00	.00	.00	---	e1.4	38	6.3	.00	.00	.00	.00
30	.00	.00	.00	.00	---	e1.6	36	4.9	.00	.00	.00	.00
31	.00	---	.00	.00	---	e2.3	---	4.0	---	.00	.00	---
TOTAL	.00	.00	.00	.00	8.52	40.20	786.0	445.7	35.47	.00	.00	.00
MEAN	.00	.00	.00	.00	.30	1.30	26.2	14.4	1.18	.00	.00	.00
MAX	.00	.00	.00	.00	6.4	2.8	50	34	3.5	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	3.0	4.0	.00	.00	.00	.00
AC-FT	.0	.0	.0	.0	17	80	1560	884	70	.0	.0	.0

CAL YR 1986 TOTAL 1172.66 MEAN 3.21 MAX 36 MIN .00 AC-FT 2330
WTR YR 1987 TOTAL 1315.89 MEAN 3.61 MAX 50 MIN .00 AC-FT 2610

e Estimated

09409880 SANTA CLARA RIVER AT GUNLOCK, UT

LOCATION.--Lat 37°16'55", long 113°46'00", in SW¼SW¼NW¼ sec.28, T.40 S., R.17 W., Washington County, Hydrologic Unit 15010008, on right bank at downstream side of bridge on county road at Gunlock, 0.5 mi below tailrace of powerhouse.

DRAINAGE AREA.--271 mi^2.

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,628 ft from topographic map.

REMARKS.--Records fair. Many diversions for irrigation above station. Flow regulated by several reservoirs and powerplant above station.

AVERAGE DISCHARGE.--18 years, 25.6 ft^3/s, 18,550 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,810 ft^3/s Feb. 14, 1980, gage height, 5.74 ft from rating curve extended above 1,580 ft^3/s; no flow several days during 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44 ft^3/s Apr. 27, gage height, 3.38 ft; minimum daily discharge, 3.0 ft^3/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.8	6.6	14	10	8.1	9.5	8.7	14	13	8.6	4.8	7.6
2	8.9	9.6	14	9.9	8.5	9.3	8.7	15	12	8.5	5.4	7.8
3	11	9.5	14	9.0	8.6	8.5	10	14	11	7.4	5.5	5.9
4	11	13	14	9.3	8.4	8.4	10	15	12	8.1	4.5	6.2
5	11	13	14	10	8.3	8.0	11	15	12	7.5	4.0	5.9
6	10	14	14	9.4	7.9	8.3	10	16	13	9.2	4.8	5.4
7	9.3	15	14	9.6	8.1	8.3	10	14	14	8.1	5.8	6.1
8	8.7	15	14	9.1	8.0	9.7	11	15	13	5.9	6.8	5.7
9	9.5	15	15	10	8.3	11	10	16	14	5.1	6.3	4.8
10	10	15	16	12	8.5	10	11	15	14	5.5	6.0	3.7
11	11	14	14	12	8.8	9.6	10	16	15	4.8	5.9	4.3
12	12	16	15	12	8.4	9.6	10	13	15	5.0	7.5	4.6
13	12	15	15	12	9.0	9.1	11	11	16	5.1	7.6	4.1
14	12	14	15	13	9.1	9.3	11	11	17	4.3	7.5	3.8
15	12	15	13	14	9.4	9.3	12	12	13	5.3	6.0	5.0
16	12	14	14	13	9.3	11	12	12	12	6.9	6.0	4.8
17	11	15	11	11	9.3	11	12	14	12	8.3	5.3	4.6
18	11	17	13	e11	9.4	11	12	14	12	8.2	4.8	4.9
19	12	16	12	e11	9.7	11	10	13	9.4	8.4	5.6	4.3
20	12	16	11	e11	9.7	11	12	13	11	8.6	5.7	3.5
21	12	16	10	12	9.4	11	12	13	11	9.4	6.2	3.0
22	13	16	10	13	9.2	11	13	14	8.9	7.6	8.3	e3.2
23	13	17	11	14	10	13	12	15	5.6	6.6	8.4	3.4
24	14	17	9.9	14	11	11	12	14	6.6	6.2	11	3.7
25	14	16	10	13	11	10	13	12	7.8	5.7	9.4	3.8
26	14	15	9.7	13	9.9	11	16	12	10	4.7	8.4	4.1
27	14	15	10	13	9.8	10	17	12	8.7	4.0	7.2	5.2
28	14	15	11	11	9.5	11	18	11	9.0	4.7	5.2	5.0
29	13	15	10	12	---	11	16	13	8.0	7.4	5.9	4.4
30	8.7	15	10	12	---	11	15	14	7.1	6.2	7.2	3.5
31	6.2	---	10	8.4	---	9.7	---	14	---	6.5	8.0	---
TOTAL	349.1	434.7	387.6	353.7	254.6	312.6	356.4	422	343.1	207.8	202.0	142.3
MEAN	11.3	14.5	12.5	11.4	9.09	10.1	11.9	13.6	11.4	6.70	6.52	4.74
MAX	14	17	16	14	11	13	18	16	17	9.4	11	7.8
MIN	6.2	6.6	9.7	8.4	7.9	8.0	8.7	11	5.5	4.0	4.0	3.0
AC-FT	692	862	769	702	505	620	707	837	681	412	401	282

CAL YR 1986 TOTAL 3909.2 MEAN 10.7 MAX 25 MIN 4.0 AC-FT 7750

WTR YR 1987 TOTAL 3765.9 MEAN 10.3 MAX 18 MIN 3.0 AC-FT 7470

e Estimated

09410100 SANTA CLARA RIVER BELOW WINSOR DAM, NEAR SANTA CLARA, UT

LOCATION.--Lat 37°11'24", long 113°46'03", in SW¼SW¼NW¼ sec.28, T.41 S., R.17 W., Washington County, Hydrologic Unit 15010008, on left bank 900 ft downstream from Winsor Dam, 0.6 mi northwest of Shivwits Indian Village, and 78.5 mi northwest of Santa Clara.

DRAINAGE AREA.--378 mi^2.

PERIOD OF RECORD.--December 1971 to current year.

REVISED RECORDS.--WRD UT-73-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 3,210 ft from topographic map, prior to July 11, 1979 at several sites downstream at different datums.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Gunlock Reservoir and several diversions upstream for irrigation.

AVERAGE DISCHARGE.--15 years, 27.0 ft^3/s, 19,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft^3/s Mar. 3, 1983, gage height, 6.07 ft from rating curve extended above 980 ft^3/s on basis of slope-area measurement; no flow several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 319 ft^3/s Aug. 8, gage height, 3.66 ft; minimum, no flow many days during October and November.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	e.10	e.10	e.10	e.40	.87	16	18	13	8.1	7.8
2	.00	.00	e.10	e.10	e.10	e.50	e6.5	16	18	11	8.3	7.5
3	.00	.00	e.10	e.10	e.10	e.70	e7.5	15	17	11	9.1	7.5
4	.00	.00	e.10	e.10	e.10	e.14	8.2	16	17	12	11	7.6
5	.00	.00	e.10	e.10	e.10	e.13	6.3	16	16	12	12	7.8
6	.00	.00	e.10	e.10	e.10	e.12	4.8	17	14	14	12	8.1
7	.00	.00	e.10	e.10	e.10	e.11	5.1	16	14	13	e13	7.0
8	.00	.00	e.10	e.10	e.10	e.10	e5.9	15	13	14	e23	7.2
9	.00	.00	e.10	e.10	e.10	e.10	e6.5	15	13	13	9.1	7.2
10	.00	.00	e.10	e.10	e.10	e.10	e9.0	14	13	15	9.1	8.6
11	.00	.00	e.10	e.10	e.10	e.10	e10	14	13	14	9.6	8.9
12	.00	.00	e.10	e.10	e.10	e.10	e15	15	13	16	9.7	8.9
13	.00	.00	e.10	e.10	e.10	e.10	e15	15	12	15	11	9.2
14	.00	.00	e.10	e.10	e.10	e.10	e16	16	12	15	11	9.3
15	.00	.00	e.10	e.10	e.30	e.10	e16	16	12	17	14	9.1
16	.00	.00	e.10	e.10	e.65	e.10	17	16	12	18	11	9.1
17	.00	e.20	e.10	e.10	e.45	e.10	16	18	10	12	13	9.2
18	.00	e.30	e.10	e.10	e.40	e.10	21	14	10	12	16	8.8
19	.00	e.10	e.10	e.10	e.40	e.10	e22	13	11	11	15	8.8
20	.00	.00	e.10	e.10	e.42	e.10	e22	12	11	11	13	8.5
21	.00	.00	e.10	e.10	e.42	e.10	21	12	11	9.8	12	8.5
22	.00	.00	e.10	e.10	e.40	e.10	21	12	9.5	10	11	8.9
23	.00	.00	e.10	e.10	e.40	e.10	20	12	9.0	12	8.4	8.3
24	.00	.00	e.10	e.10	e.40	e.10	21	12	10	11	8.1	.36
25	.00	e.10	e.10	e.10	e.40	e.10	19	13	9.8	11	8.7	e.15
26	.00	e.10	e.10	e.10	e.41	e.10	18	16	10	11	9.3	e.10
27	.00	e.10	e.10	e.10	e.43	e.10	19	18	11	10	8.7	e.10
28	.00	e.10	e.10	e.10	e.40	e.10	21	18	10	9.4	9.0	e.10
29	.00	e.10	e.10	e.10	---	e.10	19	18	12	8.8	8.9	e.10
30	.00	e.10	e.10	e.10	---	e.10	18	18	12	7.9	8.0	e.10
31	.00	---	e.10	e.10	---	e.10	---	18	---	8.0	8.0	---
TOTAL	.00	1.20	3.10	3.10	7.28	4.50	427.67	472	373.3	377.9	338.1	192.81
MEAN	.00	.04	.10	.10	.26	.15	14.3	15.2	12.4	12.2	10.9	6.43
MAX	.00	.30	.10	.10	.65	.70	22	18	18	18	23	9.3
MIN	.00	.00	.10	.10	.10	.10	.87	12	9.0	7.9	8.0	.10
AC-FT	.0	2.4	6.1	6.1	14	8.9	848	936	740	750	671	382

CAL YR 1986 TOTAL 2888.78 MEAN 7.91 MAX 27 MIN .00 AC-FT 5730
WTR YR 1987 TOTAL 2200.95 MEAN 6.03 MAX 23 MIN .00 AC-FT 4370

e Estimated

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'26", long 113°34'56", in NE¼NW¼SW¼ sec.6, T.43 S., R.15 W., on right bank 0.25 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--540 mi^2, approximately.

PERIOD OF RECORD.--October 1950 to September 1956. November 1984 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,560 ft from topographic map. October 1950 to September 1956, gage located 0.25 mi upstream from present site at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

AVERAGE DISCHARGE.--8 years (1950-56, 1986-87), 7.76 ft^3/s, 5,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft^3/s Aug. 24, 1955, gage height, 10.02 ft from rating curve extended above 400 ft^3/s on basis of indirect measurements at gage heights 7.31 and 9.48 ft, site and datum then in use; no flow at times in 1951, 1953, 1955-56.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 192 ft^3/s Aug. 8, gage height, 3.16 ft; minimum daily discharge, 0.31 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.8	7.0	3.8	4.9	3.5	2.6	1.7	4.1	e2.9	e2.4	1.5	1.2
2	e6.5	6.4	3.7	4.6	3.5	2.8	1.6	3.3	2.5	e2.4	1.2	3.0
3	6.3	5.3	4.2	4.3	3.2	3.2	2.1	2.5	2.9	e2.5	5.3	2.5
4	5.9	7.1	4.9	3.1	3.0	3.2	3.8	4.1	2.7	e2.4	2.4	2.1
5	3.7	6.7	4.9	5.9	2.6	3.2	3.5	3.7	2.5	e2.4	1.3	2.5
6	3.1	6.4	5.3	4.0	2.8	3.4	2.7	2.8	2.1	e2.3	1.2	2.2
7	4.4	6.8	5.7	13	3.1	4.1	2.6	4.0	6.6	e2.3	1.7	1.2
8	4.5	6.7	6.7	4.7	3.2	6.2	4.0	5.7	5.2	e2.3	13	2.0
9	4.8	6.8	6.5	3.6	3.2	4.3	3.6	4.5	3.2	e2.3	5.4	3.5
10	5.4	7.4	6.6	3.2	3.4	4.9	3.6	4.0	2.6	e2.3	1.8	2.7
11	9.5	5.5	5.4	3.2	3.7	5.4	2.7	4.2	3.4	e2.3	3.0	1.9
12	7.1	3.1	5.0	3.8	4.1	5.0	e3.0	2.9	3.7	e2.5	1.2	2.4
13	6.0	3.2	4.9	4.6	3.6	1.4	e3.1	3.1	4.0	e3.0	1.1	2.4
14	5.9	2.9	4.9	4.2	4.2	1.3	e3.2	3.2	4.0	e4.2	1.8	1.3
15	5.7	e2.9	4.8	4.9	3.1	1.1	e5.0	5.0	2.7	2.4	.74	1.5
16	5.4	e3.0	4.4	5.0	2.4	1.8	4.1	7.8	2.7	2.4	.75	2.6
17	5.4	e3.1	4.4	3.7	1.5	2.5	2.6	2.7	3.7	3.0	1.1	2.3
18	5.5	8.9	4.4	3.7	1.7	2.9	3.8	2.3	3.8	2.3	1.2	2.5
19	4.9	5.1	4.5	4.0	1.6	2.2	3.5	1.2	3.8	2.6	1.2	2.9
20	3.2	4.4	4.5	3.7	1.0	2.1	3.9	2.1	e3.3	1.9	1.9	2.5
21	5.6	7.8	4.5	3.6	1.7	1.9	2.5	2.7	e2.9	5.4	1.5	2.8
22	5.7	3.9	4.3	3.5	2.0	6.0	2.5	2.0	e2.6	3.0	1.1	3.1
23	5.6	4.2	4.2	3.5	3.4	3.5	3.3	1.3	e2.4	2.8	2.5	3.2
24	5.4	3.9	4.4	3.5	2.5	2.8	2.5	1.5	2.6	e1.4	3.2	3.7
25	5.7	5.0	4.4	3.5	4.9	2.5	2.9	.91	2.5	e1.1	3.1	3.2
26	5.8	4.3	4.7	3.5	4.8	2.4	2.9	.95	2.2	e2.0	3.0	2.8
27	6.3	4.1	4.7	3.4	3.7	1.8	2.9	1.5	2.7	e2.8	1.7	2.4
28	6.3	4.4	4.7	3.3	2.9	1.6	2.3	1.0	2.8	e3.0	.89	1.5
29	7.8	3.7	4.7	3.9	---	1.9	2.8	2.5	e2.7	e2.8	1.4	.95
30	6.5	4.5	5.2	3.7	---	2.4	6.3	2.3	e2.5	e2.7	2.0	.31
31	7.2	---	4.9	3.5	---	2.5	---	e2.6	---	e2.4	1.1	---
TOTAL	177.9	154.5	150.2	131.0	84.3	92.9	95.0	92.46	94.2	79.6	70.28	69.16
MEAN	5.74	5.15	4.85	4.23	3.01	3.00	3.17	2.98	3.14	2.57	2.27	2.31
MAX	9.5	8.9	6.7	13	4.9	6.2	6.3	7.8	6.6	5.4	13	3.7
MIN	3.1	2.9	3.7	3.1	1.0	1.1	1.6	.91	2.1	1.1	.74	.31
AC-FT	353	306	298	260	167	184	188	183	187	158	139	137

CAL YR 1986 TOTAL 1933.82 MEAN 5.30 MAX 18 MIN .64 AC-FT 3840
WTR YR 1987 TOTAL 1291.48 MEAN 3.54 MAX 13 MIN .31 AC-FT 2560

e Estimated

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT

LOCATION.--Lat 37°04'14", long 113°34'55", in SE¼NW¼SW¼ sec.6, T.43 S., R.15 W., Washington County, Hydrologic Unit 15010010, on left bank 2.5 mi south of St. George.

DRAINAGE AREA.--3,831 mi^2.

PERIOD OF RECORD.--September 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,530 ft from topographic map, prior to Sept. 19, 1978 at site 1.5 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation of about 19,600 acres above station.

AVERAGE DISCHARGE.--10 years, 292 ft^3/s, 211,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 10,000 ft^3/s Feb. 15, 1980; minimum, 5.8 ft 3/s Sept. 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,700 ft^3/s July 21, gage height, 8.92 ft; minimum discharge, 23 ft^3/s July 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e310	148	153	67	85	87	44	293	100	31	55	39
2	e490	139	152	68	82	90	49	231	85	33	36	43
3	e480	135	141	65	89	97	64	195	83	e32	41	40
4	e475	129	142	66	82	119	115	165	85	e33	53	43
5	e470	132	147	80	79	118	133	147	83	e32	45	49
6	e465	139	84	89	80	103	150	131	72	e31	80	e49
7	e400	126	82	108	93	96	131	87	110	e33	235	e48
8	e450	125	79	95	91	119	119	82	116	e34	e70	e44
9	e430	132	79	82	96	150	110	65	92	e33	e64	e41
10	e500	131	75	72	113	143	117	60	85	e31	e52	e40
11	e490	139	69	75	117	116	133	73	73	e36	e54	e43
12	e420	260	65	73	134	103	166	91	66	e46	e64	e48
13	e350	259	66	75	122	170	160	84	49	e64	e250	e50
14	e240	254	66	74	138	102	103	102	39	e60	e280	e50
15	e180	226	67	76	138	64	117	143	49	e50	e80	e49
16	e300	146	64	75	99	208	197	318	39	e49	e35	e47
17	e340	142	65	109	81	143	283	279	51	e210	e38	e46
18	e340	173	67	78	69	157	367	226	52	e130	e40	e45
19	e330	349	64	89	67	134	498	146	50	e70	e46	e45
20	e320	198	66	97	67	122	324	153	48	e770	e48	e45
21	e300	164	70	96	65	97	240	235	49	e2200	e90	e46
22	e260	152	67	96	75	114	286	154	49	e305	e155	e48
23	e230	157	63	95	87	126	406	116	36	e35	307	e50
24	200	162	61	144	94	112	234	91	38	e32	3060	e53
25	148	156	67	155	102	127	232	81	36	e32	225	e53
26	139	158	66	106	113	98	229	99	30	e33	81	e52
27	136	159	65	88	98	83	208	105	31	e110	61	e52
28	123	159	72	97	89	67	249	86	32	e60	41	e51
29	128	157	63	192	---	73	301	102	32	e48	38	e51
30	128	156	61	115	---	63	292	99	37	e64	39	e50
31	131	---	62	96	---	47	---	94	---	e90	40	---
TOTAL	9763	5062	2510	2893	2645	3448	6057	4339	1797	4817	5803	1410
MEAN	315	169	81.0	93.3	94.5	111	202	140	59.9	155	187	47.0
MAX	500	349	153	192	138	208	498	318	116	2200	3060	53
MIN	123	125	61	65	65	47	44	60	30	31	35	39
AC-FT	19360	10040	4980	5740	5250	6840	12010	8610	3560	9550	11510	2800

CAL YR 1986 TOTAL 51502 MEAN 141 MAX 1110 MIN 26 AC-FT 102200
WTR YR 1987 TOTAL 50544 MEAN 138 MAX 3060 MIN 30 AC-FT 100300

e Estimated

GREAT SALT LAKE BASIN

10010000 GREAT SALT LAKE AT STATE PARK SALTAIR BEACH BOAT HARBOR, UT

LOCATION.--Lat 40°44'05", long 112°12'45", in NE¼SW¼NW¼ sec.17, T.1 S., R.3 W., Salt Lake County. Hydrologic Unit 16020310, at State Park Saltair Beach Boat Harbor on southeast shore of lake, 17.1 mi west of Salt Lake City. (Gage temporarily located 0.4 mi to the southeast, from Apr. 13, 1984 to May 30, 1985, because of problems associated with highwater, then relocated 0.1 mi to the northeast from May 30, 1985 to present because of highway construction.)

PERIOD OF RECORD.--September 1875 to December 1899, October 1902 to current year. Records for October 1902 to September 1912 and diagram showing fluctuations of lake from 1851-1950, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1877. WRD-UT-74-1: 1967-73. WDR-UT-83-1: 1981-82.

GAGE.--Water-stage recorder at Boat Harbor since October 1938. Datum of gage since September 15, 1970 is 4,186.80 ft NGVD of 1929. October 1938 to April 15, 1967, at datum 4,186.9 ft and April 15, 1967 to September 15, 1970, at datum 4,186.85 ft. Prior to October 1938, staff gages at sites and datums as follows: September 1875 to October 1877 at Black Rock at 4,208.4 ft NGVD of 1929, November 1877 to November 1879 at Farmington Bay at 4,206.9 ft NGVD of 1929, November 1879 to April 1881 near Black Rock at 4,203.1 ft NGVD of 1929, April 1881 to December 1895 at Garfield Landing at 4,198.5 ft NGVD of 1929, October 1902 to July 1903, at Midlake on Lucin cutoff of Southern Pacific Railroad, 30 mi west of Ogden, at 4,197.9 ft NGVD of 1929, and July 1903 to October 1938 at Saltair at 4,196.9 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations, which are not shown in the published elevations. Samples for specific gravity were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 4,211.85 ft June 3, 1986, Mar. 30-Apr. 6, 1987; minimum, 4,191.35 ft Oct. 15, Nov. 1, 1963. Maximum elevation since 1847, 4,211.6 ft in 1873, computed from traditional data by G. K. Gilbert and E. C. LaRue.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4211.85 ft Mar. 30-Apr. 6; minimum, 4209.60 ft Sept. 30.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Day		Gage height	Elevation	Temperature, water (Deg. C)	Specific Gravity (20.0°C)
Oct.	1	24.00	4,210.80	14.0	1.041
	15	24.05	4,210.85	12.0	1.041
Nov.	1	24.15	4,210.95	11.0	1.042
	15	24.15	4,210.95	8.0	1.040
Dec.	1	24.25	4,211.05	5.5	1.041
	15	24.30	4,211.10	2.0	1.040
Jan.	1	24.40	4,211.20	2.5	1.039
	15	24.55	4,211.35	.5	1.038
Feb.	1	24.60	4,211.40	1.0	1.037
	15	24.75	4,211.55	2.5	1.039
Mar.	1	24.85	4,211.65	4.0	1.039
	15	24.95	4,211.75	6.5	1.040
Apr.	1	25.05	4,211.85	9.5	1.040
	15	25.00	4,211.80	11.0	1.041
May	1	24.90	4,211.70	15.5	1.041
	15	24.85	4,211.65	20.0	1.039
June	1	24.80	4,211.60	17.5	1.041
	15	24.70	4,211.50	21.0	1.041
July	1	24.40	4,211.20	22.5	1.044
	15	24.10	4,210.90	27.0	1.044
Aug.	1	23.85	4,210.65	26.5	1.046
	15	23.50	4,210.30	16.5	1.047
Sept.	1	23.30	4,210.10	22.0	1.045
	15	23.05	4,209.85	19.5	1.048

10010100 GREAT SALT LAKE NEAR SALINE, UT

LOCATION.--Lat 41°15'09", long 112°29'40", in SE¼NE¼NW¼ sec.14, T.6 N., R.6 W., Box Elder County, Hydrologic Unit 16020310, 3.4 mi northwest of Saline at the Little Valley boat harbor, 30 mi west of Ogden and 27 mi south of Promontory.

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WDR UT-75-1: 1966-75. WDR UT-83-1: 1966-82, gage datum.

GAGE.--Water-stage recorder on pier of boat harbor. Datum of gage, 4,189.80 ft NGVD of 1929.

REMARKS.--To compensate for wind effect and seiches, elevations given for the gage are taken from a mean-slope line defined by several days' gage-height graph, preceding and following 0001 hours, for the 1st and 15th of each month. Wind effects may cause substantial changes in elevations, which are not shown in the published elevations. Samples for specific gravity were collected from water surface near the gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,210.95 ft Apr. 7-29, 1987; minimum, 4,192.65 ft Oct. 15, Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,210.95 ft Apr. 7-29; minimum, 4,208.80 ft Sept. 30.

GAGE HEIGHT AND ELEVATION, IN FEET, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Day		Gage height	Elevation	Temperature, Water (Deg. C)	Specific Gravity (20.0°C
Oct.	1	20.00	4,209.80	--	--
	15	20.10	4,209.90	14.0	1.121
Nov.	1	20.20	4,210.00	--	--
	15	20.20	4,210.00	8.0	--
Dec.	1	20.30	4,210.10	--	--
	15	20.40	4,210.20	.0	1.098
Jan.	1	20.55	4,210.35	--	--
	15	20.70	4,210.50	2.0	1.110
Feb.	1	20.70	4,210.50	--	--
	15	20.90	4,210.70	1.5	1.106
Mar.	1	20.95	4,210.75	--	--
	15	21.10	4,210.90	6.0	1.110
Apr.	1	21.05	4,210.85	--	--
	15	21.15	4,210.95	10.5	--
May	1	21.10	4,210.90	--	--
	15	21.05	4,210.85	22.0	1.110
June	1	20.95	4,210.75	--	--
	15	20.90	4,210.70	23.0	1.110
July	1	20.55	4,210.35	--	--
	15	20.25	4,210.05	24.5	1.107
Aug.	1	20.05	4,209.85	--	--
	15	19.85	4,209.65	23.5	1.112
Sept.	1	19.55	4,209.35	--	--
	15	19.30	4,209.10	22.0	--

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼NW¼SE¼ sec.30, T.3 N., R.10 E., Summit County, Utah Hydrologic Unit 16010101, on left bank 400 ft downstream from West Fork and 2.8 mi upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft from river-profile map. Prior to Oct. 1, 1986 at datum 3.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated slightly by Whitney Reservoir, total capacity, 4,780 acre-ft since 1966. Three diversions above station for irrigation of about 205 acres above and 2,600 acres below station.

AVERAGE DISCHARGE.--45 years, 198 ft^3/s, 143,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,230 ft^3/s June 6, 1986, gage height, 4.05 ft; maximum gage height, 4.28 ft June 19, 1983; minimum, 6.8 ft^3/s Apr. 12, 1984, result of upstream ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	2400	*1,610	*6.11	No other peak greater than base discharge.			

Minimum daily discharge, 48 ft^3/s, Feb. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	93	66	e57	57	e58	58	671	401	221	133	e96
2	98	86	80	e56	57	59	59	629	381	207	115	e100
3	97	91	79	e56	57	58	61	444	424	198	108	e106
4	89	86	79	e58	56	57	67	411	524	183	102	e103
5	92	87	78	e58	e49	59	65	453	609	160	98	94
6	90	90	78	e60	e50	60	69	552	619	148	99	88
7	93	81	76	e60	e49	60	68	650	687	140	100	86
8	93	73	74	e60	e49	59	73	709	746	130	97	86
9	92	87	e63	e58	57	58	72	741	652	124	92	85
10	91	86	e62	e58	57	58	73	760	589	122	90	86
11	94	86	e62	e58	57	58	74	796	592	136	91	83
12	82	88	e62	e60	57	60	71	859	612	112	88	81
13	86	86	e63	e60	57	62	68	969	608	118	87	81
14	89	83	e64	e61	57	60	77	1010	583	158	136	82
15	87	82	e62	e63	e48	58	98	1050	539	152	143	83
16	86	82	e62	e61	58	59	127	1200	562	170	127	82
17	87	80	e60	e58	58	58	166	1200	477	241	99	80
18	98	83	e60	e61	58	58	217	1170	416	245	93	80
19	103	80	e60	e64	58	59	197	1010	376	209	89	78
20	101	83	e58	e68	e50	59	156	797	356	201	88	78
21	100	84	e57	e71	e50	57	159	663	320	256	95	76
22	100	80	e59	e72	e52	70	206	561	310	264	122	74
23	103	81	e60	e73	61	62	286	473	297	203	e103	74
24	97	81	e60	69	58	60	379	433	274	160	134	74
25	96	80	e60	62	60	56	420	488	263	145	e151	73
26	94	66	e60	58	69	55	417	389	251	130	e155	73
27	98	82	e60	56	64	56	437	346	239	165	e150	64
28	98	81	e60	56	68	56	492	314	238	137	e130	62
29	94	79	e60	62	---	56	566	302	268	142	e110	62
30	97	76	e58	58	---	57	637	293	240	136	e97	61
31	93	---	e58	57	---	59	---	306	---	165	e95	---
TOTAL	2907	2483	2000	1889	1578	1821	5915	20657	13452	5284	3417	2429
MEAN	93.8	82.8	64.5	60.9	56.4	58.7	197	666	448	170	110	81.0
MAX	103	93	80	73	69	70	637	1200	746	264	155	106
MIN	82	66	57	56	48	55	58	293	238	112	87	61
AC-FT	5770	4930	3970	3750	3130	3610	11730	40970	26680	10480	6780	4820

CAL YR 1986 TOTAL 123284 MEAN 338 MAX 2880 MIN 30 AC-FT 244500
WTR YR 1987 TOTAL 63832 MEAN 175 MAX 1200 MIN 48 AC-FT 126600

e Estimated

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in NE¼SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi downstream from La Chapelle Creek, 2 mi upstream from Sulphur Creek Dam, and 11.5 mi southeast of Evanston.

DRAINAGE AREA.--64.2 mi^2.

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--30 years, 19.1 ft^3/s, 13,840 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,400 ft^3/s June 1, 1983, gage height, 9.10 ft, from rating curve extended above 1,200 ft^3/s on basis of slope-area measurement of peak flow. Flood was result of released water from temporary blockage of upstream road culverts; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 229 ft^3/s Apr. 6, gage height, 4.17 ft; minimum daily, 0.15 ft^3/s, Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	10	e10	e12	e11	e14	e82	87	16	7.5	2.5	1.4
2	13	9.4	e11	e13	e12	e15	89	97	15	5.4	2.3	1.1
3	17	11	e11	e14	e13	e16	98	69	13	5.4	1.6	.95
4	13	11	12	e15	e11	e17	108	62	12	5.2	1.3	2.0
5	11	13	12	e15	e11	e18	132	e53	16	4.2	1.0	1.8
6	10	13	12	e13	e11	e19	143	e60	23	3.6	.74	1.4
7	9.7	12	12	e12	e12	e21	117	e67	31	3.2	.35	1.4
8	e8.8	11	14	e10	e12	e22	98	e77	43	e1.0	.21	1.4
9	e7.6	11	12	e8.6	e12	e26	87	e80	40	.86	.16	1.3
10	7.1	12	11	e8.2	e12	e29	86	e82	54	.95	.15	1.1
11	7.1	12	e11	e8.0	e13	e30	85	e83	27	2.3	.26	.90
12	7.4	12	e11	e9.4	e14	e31	85	e84	21	2.4	1.1	1.0
13	7.9	13	e11	e9.6	e14	e33	85	e86	17	1.9	.52	1.1
14	7.9	13	e12	e11	e13	e36	85	e90	15	1.5	.31	1.1
15	7.1	15	e12	e11	e12	e37	84	e96	12	1.6	3.2	1.5
16	8.2	18	e12	e11	11	e39	84	e102	16	1.5	2.5	1.8
17	8.2	16	e12	e11	e11	e40	76	e111	14	3.5	1.1	1.8
18	11	21	e12	e10	e11	e41	66	e121	10	5.6	.95	1.6
19	16	21	e13	e10	e11	e44	67	e109	8.2	6.0	.46	1.4
20	23	22	e12	e11	e12	e48	56	e95	7.7	5.8	.19	1.3
21	15	21	e11	e11	e12	e49	56	e78	6.8	16	.22	1.3
22	13	19	e11	e11	e13	e51	56	62	5.3	38	1.4	1.2
23	13	15	e11	e11	e13	e53	57	34	5.0	13	1.4	1.0
24	12	13	e11	e12	e12	e56	70	29	5.5	8.9	1.7	1.4
25	11	e12	e11	e12	e12	e58	75	30	6.4	8.2	2.9	2.5
26	10	e12	e11	e13	e13	e62	70	37	5.9	9.3	2.3	2.5
27	9.7	e11	e11	e13	e13	e66	71	36	5.3	7.8	1.8	2.2
28	9.1	e11	e13	e13	e13	e70	74	29	5.3	6.2	1.7	1.6
29	9.1	11	e13	e13	---	e74	77	43	14	3.7	1.6	1.4
30	7.6	e10	e11	e12	---	e75	76	37	12	3.2	1.5	1.3
31	8.8	---	e11	e11	---	e77	---	22	---	2.6	1.4	---
TOTAL	329.3	411.4	360	354.8	340	1267	2495	2148	482.4	186.31	38.82	43.75
MEAN	10.6	13.7	11.6	11.4	12.1	40.9	83.2	69.3	16.1	6.01	1.25	1.46
MAX	23	22	14	15	14	77	143	121	54	38	3.2	2.5
MIN	7.1	9.4	10	8.0	11	14	56	22	5.0	.86	.15	.90
AC-FT	653	816	714	704	674	2510	4950	4260	957	370	77	87

CAL YR 1986 TOTAL 14097.75 MEAN 38.6 MAX 355 MIN 2.1 AC-FT 27960
WTR YR 1987 TOTAL 8456.70 MEAN 23.2 MAX 143 MIN .15 AC-FT 16770

e Estimated

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft downstream from Sulphur Creek Dam, 6.3 mi upstream from mouth, and 10.5 mi southeast of Evanston.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft from topographic map. Oct. 1, 1986 to June 9, 1987 at datum 1.0 ft higher. After June 9, 1987 at site 0.3 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft. Records prior to 1965 do not include flow over spillway of the dam.

AVERAGE DISCHARGE.--23 years (water years 1965-87), 27.7 ft^3/s, 20,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum daily discharge, 740 ft^3/s May 15, 1984; no flow at times each year, except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 165 ft^3/s May. 26; no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	e20	e5.0	e.00	.12	69	5.8	44	44	e88
2	.00	.00	.00	e19	e5.0	e.00	.10	70	19	48	44	92
3	.00	.00	.00	e18	e5.4	e.00	.10	71	19	46	48	119
4	18	.00	.00	e18	e5.4	e.00	.11	70	19	49	45	111
5	35	.00	8.7	e18	e5.0	e.00	.13	69	13	49	46	113
6	35	.00	e12	e18	e5.0	e.00	1.4	69	.00	49	45	95
7	35	.00	e13	e17	e5.2	e.00	126	69	.00	50	46	63
8	35	.00	e13	e16	e5.2	e.00	138	69	8.7	51	45	62
9	35	.00	e13	e16	e5.2	e.00	147	68	e63	51	44	76
10	35	.00	e13	e16	e6.2	e.00	149	68	70	51	44	100
11	34	.00	e13	e16	e5.4	.00	147	68	74	50	42	94
12	34	.00	e13	e16	e5.4	.00	146	68	66	50	41	68
13	34	.00	e13	e18	e5.6	.00	145	65	56	50	43	12
14	34	.00	e14	e18	e5.6	.00	107	60	49	50	52	.1
15	34	.00	e20	e16	e5.0	.00	66	46	e51	51	52	.00
16	34	.00	e25	e5.2	e4.8	.00	66	13	e51	51	52	.00
17	34	.00	e30	e5.2	e4.8	.00	34	13	e51	51	54	.00
18	34	.00	e30	e5.2	e4.8	.00	12	13	e50	50	52	.00
19	34	.00	e30	e5.4	e5.2	.00	12	5.2	e45	45	52	.00
20	34	.00	e30	e5.2	e5.2	.00	11	.09	e45	45	52	.00
21	34	.00	e28	e5.[illegible]	e5.2	.00	11	.05	e45	45	51	.00
22	34	.00	e28	e5.2	e5.0	.00	11	.02	e42	46	57	.00
23	34	.00	e28	e5.2	e5.0	.00	12	19	e42	46	77	.14
24	34	.00	e26	e5.4	e5.4	.00	13	32	e40	46	85	e.00
25	33	.00	e26	e5.4	e5.4	.01	14	84	e40	48	84	e.00
26	33	.00	e25	e5.4	e5.2	.12	27	165	e39	48	84	e.00
27	33	.00	e24	e5.6	e5.2	.12	68	59	e38	49	e84	e.00
28	17	.00	e23	e5.6	e.00	.12	89	.08	e37	50	e64	e.00
29	.08	.00	e23	e5.4	---	.12	68	.00	35	49	e84	e.00
30	.05	.00	e21	e5.2	---	.12	69	.00	35	50	e84	e.00
31	.01	---	e20	e5.0	---	.12	---	.00	---	49	e84	---
TOTAL	820.14	.00	562.70	344.8	139.80	.73	1669.96	1402.36	1147.70	1507	1797	1093.24
MEAN	26.5	.00	18.2	11.1	4.99	.02	55.7	45.2	38.3	48.6	58.0	36.4
MAX	35	.00	30	20	5.6	.12	149	165	74	51	85	119
MIN	.06	.00	.00	5.0	.00	.00	.10	.00	.00	44	41	.00
AC-FT	1630	.0	1120	684	277	1.4	3310	2780	2280	2990	3560	2170

CAL YR 1986 TOTAL 16795.44 MEAN 46.0 MAX 245 MIN .00 AC-FT 33310
WTR YR 1987 TOTAL 10485.42 MEAN 28.7 MAX 165 MIN .00 AC-FT 20800

e Estimated

10016900 BEAR RIVER AT EVANSTON, WY

LOCATION.--Lat 41°16'13", long 110°57'47", in NE¼ NW¼ NW¼ sec.21, T.15 N., R.120 W., Uinta County, Hydrologic Unit 16010101, on left bank 100 ft downstream from bridge on State Highway 89, in the City of Evanston.

DRAINAGE AREA.--433 mi^2.

PERIOD OF RECORD.--May 1984 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 6,730 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: May 13-18, and Sept. 10-29. Records good except those for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, diversions for irrigation, and return flow from irrigated areas. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 3 . . 173

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft^3/s, May 16, 1984, gage height, 7.35 ft; minimum daily during periods of operation, 31 ft^3/s, July 16, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,520 ft^3/s, May 17, gage height, 4.82 ft, from floodmark; minimum daily during period of operation, 31 ft^3/s, July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							168	900	318	98	99	100
2							222	909	313	94	83	101
3							263	702	301	73	67	123
4							366	637	330	71	56	143
5							378	616	384	62	44	147
6							480	686	424	58	35	132
7							479	790	472	51	34	90
8							441	863	667	51	38	95
9							405	891	613	45	33	99
10							352	863	594	39	34	95
11							367	909	542	48	38	90
12							341	946	500	44	39	90
13							298	1000	456	41	34	90
14							289	1050	435	37	50	90
15							282	1150	381	33	113	90
16							335	1250	406	31	128	90
17							360	1350	346	32	101	90
18							389	1250	295	54	82	90
19							435	1150	258	50	74	90
20							316	981	231	43	70	90
21							287	832	197	52	72	95
22							326	671	155	172	97	100
23							399	544	149	125	101	100
24							517	492	125	87	107	80
25							586	470	96	68	157	70
26							579	600	70	59	143	60
27							601	546	53	52	123	50
28							679	361	59	78	127	40
29							737	342	79	91	121	35
30							828	347	113	100	112	32
31							---	298	---	107	109	---
TOTAL							12505	24396	9362	2046	2521	2687
MEAN							417	787	312	66.0	81.3	89.6
MAX							828	1350	667	172	157	147
MIN							168	298	53	31	33	32
AC-FT							24800	48390	18570	4060	5000	5330

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE¼NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, Wyoming. Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft from river-profile map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--26 years, 265 ft^3/s, 192,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft^3/s June 2, 1983, gage height, 6.17 ft; minimum, 0.1 ft^3/s Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft^3/s May 17, gage height, 4.18 ft; minimum daily, 19 ft^3/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	151	101	e93	e78	e88	59	846	245	78	68	75
2	167	151	112	e88	e87	e94	75	907	247	68	57	65
3	187	138	e134	e89	e98	e125	78	803	232	56	49	67
4	184	141	e150	e91	e94	e150	127	634	228	46	43	93
5	179	134	e168	e102	e85	e200	349	590	252	37	33	103
6	184	139	e155	e120	e82	e260	434	627	293	31	27	97
7	180	150	e140	e102	e82	e310	492	679	335	26	24	75
8	175	128	e125	e99	e85	e365	466	745	498	22	21	43
9	166	113	112	e95	e88	e345	428	792	501	27	24	37
10	159	126	94	e91	e92	e310	393	769	484	30	22	44
11	158	158	118	e89	e96	e290	372	804	447	31	23	55
12	162	146	124	e88	e112	e280	374	826	397	27	25	57
13	151	144	110	e85	e142	e290	326	878	354	26	27	46
14	157	127	119	e84	e158	e310	283	965	333	23	23	33
15	158	129	119	e79	e150	e330	268	976	309	23	50	24
16	115	122	e121	e71	e138	e270	285	1020	302	23	68	23
17	109	125	e108	e76	e113	e230	328	1110	279	24	75	21
18	110	116	e106	e78	e110	e185	320	1220	241	21	59	21
19	144	125	e105	e84	e110	e155	386	1060	220	30	55	20
20	174	143	e103	e75	e109	e118	332	949	206	30	51	19
21	171	131	e101	e69	e125	e100	260	782	192	29	44	21
22	166	140	e96	e65	e130	e88	275	641	168	56	49	29
23	162	125	e94	e60	e140	e76	325	507	141	96	62	28
24	156	114	e102	e72	e115	e82	422	438	130	64	70	26
25	145	131	e110	e80	e88	e85	508	383	110	51	86	23
26	139	121	e100	e100	e82	e84	590	504	98	43	103	21
27	160	96	e94	e87	e80	77	589	561	77	41	101	21
28	169	115	e92	e77	e82	72	641	324	54	43	89	22
29	161	119	e98	e71	---	59	675	295	60	55	89	27
30	146	118	e103	e72	---	62	729	303	65	61	82	24
31	150	---	e103	e74	---	71	---	266	---	66	77	---
TOTAL	4906	3916	3517	2606	2951	5561	11189	22204	7498	1284	1676	1260
MEAN	158	131	113	84.1	105	179	373	716	250	41.4	54.1	42.0
MAX	187	158	168	120	158	365	729	1220	501	96	103	103
MIN	109	96	92	60	78	59	59	266	54	21	21	19
AC-FT	9730	7770	6980	5170	5850	11030	22190	44040	14870	2550	3320	2500

CAL YR 1986 TOTAL 215789 MEAN 591 MAX 3780 MIN 49 AC-FT 428000
WTR YR 1987 TOTAL 68568 MEAN 188 MAX 1220 MIN 19 AC-FT 136000

e Estimated

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in SE¼NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi upstream from Wyoming-Utah State line, and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi².

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,405 ft from levels by Bureau of Reclamation.

REMARKS.--Records poor. Reservoir formed by earthfill, rock-faced dam. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft below spillway crest. Total capacity increased to 57,300 in 1980. Gage height of spillway is 50.4 ft. Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 64,310 acre-ft June 2, 1983, gage height, 53.5 ft; minimum observed, 880 acre-ft Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum, 60,470 acre-ft May 18, 19, gage height, 51.8 ft; minimum, 22,380 acre-ft Sep. 28-30, gage height, 31.5 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*48,480	-
Oct. 31	-	*55,720	+7,240
Nov. 30	-	*57,980	+2,260
Dec. 31	-	*57,980	0
CAL YR 1986	-	-	+27,450
Jan. 31	-	*57,980	0
Feb. 28	-	*57,980	0
Mar. 31	-	*57,530	-450
Apr. 30	51.4	59,560	+2,030
May 31	51.0	58,660	-900
June 30	38.4	33,430	-25,230
July 31	32.0	23,080	-10,350
Aug. 31	31.8	22,800	-280
Sept. 30	31.5	22,380	-420
WTR YR 1987	-	-	-26,100

* No gage reading, contents interpolated.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 1,100 ft downstream from Woodruff Narrows Dam, 1.6 mi upstream from Salt Creek, 5.4 mi upstream from Wyoming-Utah State line. and 7.7 mi east of Woodruff.

DRAINAGE AREA.--784 mi^2.

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft NGVD of 1929 (levels by Utah Water Resources Division from Bureau of Reclamation bench mark). Prior to Sept. 26, 1962, at site 175 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Woodruff Narrows Reservoir (station 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres above station.

AVERAGE DISCHARGE.--26 years, 260 ft^3/s, 188,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s June 2, 1983, gage height, 8.26 ft; no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979, Oct. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft^3/s May 18, gage height, 6.11 ft; minimum daily, 39 ft^3/s many days during July and August.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	138	132	93	83	94	119	776	311	591	39	42
2	65	149	121	94	86	92	153	857	504	584	39	42
3	66	155	118	93	88	91	198	876	543	581	39	42
4	66	158	121	94	91	95	278	767	608	573	39	43
5	66	160	130	105	92	111	363	679	690	565	39	43
6	66	156	140	110	94	142	434	638	818	559	39	43
7	66	161	149	108	94	187	529	657	811	352	39	43
8	66	161	149	108	94	244	563	706	803	141	39	43
9	66	157	137	106	94	287	550	762	800	139	39	43
10	66	137	123	100	95	286	509	790	742	138	39	43
11	66	145	118	95	97	272	455	798	680	138	39	43
12	66	139	111	93	102	255	425	824	674	138	39	43
13	66	145	109	92	108	245	395	862	670	137	40	43
14	66	145	110	92	117	259	359	922	667	136	40	43
15	66	149	111	94	121	269	332	974	667	138	40	43
16	66	147	113	90	125	280	317	1000	659	138	40	43
17	66	146	116	85	125	271	334	1060	656	97	39	43
18	66	142	114	81	123	241	357	1180	655	40	40	43
19	66	145	113	79	123	219	356	1190	652	39	40	43
20	66	149	113	77	123	193	384	1100	648	39	40	43
21	66	153	113	74	119	174	353	997	647	39	40	43
22	66	156	113	72	114	156	325	856	640	39	40	43
23	67	155	108	70	109	144	323	703	636	39	40	43
24	67	147	105	68	106	133	355	580	630	39	40	43
25	67	145	99	70	106	124	426	515	627	39	40	43
26	67	147	99	70	103	119	495	517	623	39	41	43
27	70	138	97	69	100	113	532	579	615	39	42	42
28	70	120	97	73	96	112	581	530	610	39	42	42
29	87	129	98	75	---	109	647	462	603	39	42	42
30	109	133	97	78	---	106	710	405	597	39	42	42
31	125	---	95	81	---	104	---	367	---	39	42	---
TOTAL	2179	4417	3569	2689	2928	5527	12157	23929	19586	5692	1238	1283
MEAN	70.3	147	115	86.7	105	178	405	772	653	184	39.9	42.8
MAX	125	161	149	110	125	287	710	1190	818	591	42	43
MIN	65	120	95	68	83	91	119	367	311	39	39	42
AC-FT	4320	8760	7080	5330	5810	10960	24110	47460	38850	11290	2460	2540

CAL YR 1986 TOTAL 171489 MEAN 470 MAX 3040 MIN 42 AC-FT 340100
WTR YR 1987 TOTAL 85194 MEAN 233 MAX 1190 MIN 39 AC-FT 169000

10023000 BIG CREEK NEAR RANDOLPH, UT

LOCATION.--Lat 41°35'36", long 111°15'12", in NW¼NW¼NE¼ sec.15, T.10 N., R.6 E., Rich County, Hydrologic Unit 16010101, on left bank 2.7 mi downstream from main forks and 5.2 mi southwest of Randolph.

DRAINAGE AREA.--52 mi², approximately.

PERIOD OF RECORD.--March 1939 to September 1944 (fragmentary), October 1949 to September 1970. October 1986 to September 1987.

GAGE.--Water-stage recorder. Elevation of gage is 6,410 ft from topographic map. March 1939 to September 1944 (fragmentary), at site 0.2 mi downstream at different datum, October 1949 to September 1959 at site 200 ft upstream at different datum, September 1959 to September 1970 at site 300 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--22 years (water years 1950-70, 1986), 15.9 ft³/s, 11,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 337 ft³/s July 11, 1957, gage height, 3.75 ft, site and datum then in use; minimum discharge, 0.9 ft³/s Aug. 4, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Mar. 21	1400	*29	1.08				

Minimum daily discharge, 12 ft³/s many days during August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e27	e26	e24	e24	e21	e22	21	19	17	15	e14	12
2	e27	e26	e24	e25	e22	e22	20	19	17	15	e14	12
3	e26	e26	e23	e26	e23	e23	20	19	18	15	e14	12
4	e26	e26	e23	e26	e23	e23	20	18	18	15	e14	13
5	e26	e26	e24	e25	e22	e24	21	18	18	15	e14	12
6	e25	e25	e24	e25	e22	e24	21	18	18	14	e14	12
7	e25	e25	e24	e24	e22	e24	20	18	18	14	14	12
8	e25	e25	e23	e23	e22	e24	19	18	18	14	13	12
9	e25	e25	e23	e22	e22	e24	19	18	18	14	13	12
10	e25	e25	e23	e22	e22	24	19	19	17	14	13	12
11	e25	e25	e23	e22	e23	25	20	19	17	14	13	12
12	e24	e26	e23	e24	e24	25	20	19	17	14	13	12
13	e23	e26	e24	e24	e25	25	19	18	17	14	13	12
14	e24	e27	e25	e24	e25	24	19	18	17	14	13	12
15	e24	e27	e25	e23	e24	24	20	18	17	14	14	12
16	e25	e27	e25	e23	e23	25	21	18	17	15	13	12
17	e25	e27	e25	e23	e23	24	21	18	16	15	13	12
18	e25	e27	e25	e23	e23	24	21	18	16	15	13	12
19	e25	e27	e24	e24	e23	23	20	19	16	15	13	12
20	e27	e26	e24	e25	e22	23	20	19	16	15	13	12
21	e26	e26	e24	e24	e22	22	19	20	16	15	13	12
22	e25	e26	e24	e23	e22	22	19	19	16	15	13	12
23	e24	e26	e24	e22	e22	21	20	18	16	15	13	12
24	e24	e26	e26	e22	e23	21	20	18	15	15	13	12
25	e24	e26	e24	e23	e23	21	20	18	15	15	13	12
26	e25	e25	e23	e25	e22	20	19	18	15	e15	13	12
27	e26	e25	e23	e24	e22	20	20	18	15	e15	12	12
28	e26	e27	e22	e23	e22	20	20	18	15	15	12	12
29	e27	e27	e22	e21	---	20	20	18	15	e14	12	12
30	e27	e24	e22	e21	---	19	19	18	15	e14	12	12
31	e27	---	e23	e21	---	20	---	17	---	e14	12	---
TOTAL	785	778	735	726	634	702	597	568	496	452	406	361
MEAN	25.3	25.9	23.7	23.4	22.6	22.6	19.9	18.3	16.5	14.6	13.1	12.0
MAX	27	27	26	26	25	25	21	20	18	15	14	13
MIN	23	24	22	21	21	19	19	17	15	14	12	12
AC-FT	1560	1540	1460	1440	1260	1390	1180	1130	984	897	805	716

WTR YR 1987 TOTAL 7240 MEAN 19.8 MAX 27 MIN 12 AC-FT 14360

e Estimated

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi upstream from Twin Creek, 5.0 mi upstream from Utah-Wyoming State line, and 11 mi northeast of Randolph.

DRAINAGE AREA.--1,616 mi².

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from river-profile map. Prior to Aug. 17, 1971, 0.2 mi upstream at different datum. Aug. 17, 1971 to Sept. 30, 1986 at datum 10.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversion for irrigation of about 94,500 acres above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--44 years, 224 ft³/s, 162,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,630 ft³/s June 4, 1983, gage height, 8.58 ft; minimum, 1.8 ft³/s Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 772 ft³/s May 22, gage height, 14.78 ft; minimum daily, 40 ft³/s Sept. 20-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	e180	e152	e135	e162	e204	e267	336	369	286	e93	e70
2	172	e182	e142	e135	e164	e207	e312	401	301	298	e91	e70
3	168	e188	e134	e137	e167	e215	367	432	248	301	e89	e70
4	190	e190	e134	e141	e167	e223	396	456	217	303	e88	74
5	192	e193	e139	e139	e164	e231	410	440	229	287	e87	74
6	194	e197	e144	e136	e162	e256	453	385	204	288	e85	75
7	191	e198	e144	e129	e160	e299	477	290	235	300	e85	73
8	187	e196	e142	e120	e155	e324	525	224	300	307	e83	72
9	183	e194	e140	e113	e157	e340	576	158	357	285	e81	55
10	181	e191	e137	e107	e161	338	588	175	436	277	e79	51
11	176	e188	e139	e103	e153	358	590	204	439	258	e80	45
12	175	e189	e141	e96	e167	e355	e577	183	399	235	e82	44
13	169	e188	e143	e94	e172	e352	e560	153	374	205	e96	46
14	169	e188	e146	e91	e178	e348	e538	153	348	246	e98	43
15	171	e188	e145	e88	e178	e332	e519	160	325	211	e96	42
16	171	e188	e144	e89	e178	e310	e500	199	309	180	e95	43
17	172	e190	e142	e90	e178	e300	e492	233	301	160	e93	42
18	175	e190	e139	e91	e180	e290	e479	312	292	174	e90	42
19	180	e190	e135	e94	e180	e250	e452	405	246	165	e90	41
20	185	e190	e135	e95	e176	e237	e450	542	273	143	e88	40
21	195	e188	e137	e98	e175	e239	e430	655	246	e134	e86	40
22	195	e182	e138	e104	e178	e241	e375	742	229	e128	e83	40
23	195	e179	e139	e112	e184	e244	e360	715	229	e120	e81	40
24	189	e179	e140	e119	e190	e246	344	575	225	e115	e77	41
25	188	e181	e142	e130	e193	e239	346	475	227	e112	e74	41
26	181	e177	e139	e139	e196	e234	375	459	233	e110	e74	42
27	180	e169	e140	e139	e198	e232	423	476	188	e108	e74	41
28	179	e167	e138	e139	e202	e230	451	491	207	e105	e72	46
29	180	e167	e132	e142	---	e230	330	495	228	e102	e72	73
30	178	e165	e130	e148	---	e230	294	473	259	e99	e72	54
31	e180	---	e130	e154	---	e238	---	418	---	e95	e72	---
TOTAL	5630	5551	4322	3647	4805	8372	13256	11803	8463	6145	2606	1570
MEAN	182	185	139	118	174	270	442	381	282	198	84.1	52.3
MAX	195	198	152	154	202	358	590	742	439	307	98	75
MIN	169	165	130	88	155	204	267	153	188	95	72	40
AC-FT	11170	11010	8570	7230	9690	16610	26290	23410	16790	12190	5170	3110

CAL YR 1986 TOTAL 219533 MEAN 601 MAX 3010 MIN 49 AC-FT 435400
WTR YR 1987 TOTAL 76250 MEAN 209 MAX 742 MIN 40 AC-FT 151200

e Estimated

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft downstream from Pixley Dam, 11 mi south of Cokeville, and 17.5 mi downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi².

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (seasonal only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft from river-profile map. Oct. 31, 1941 to Nov. 30, 1943, at site 200 ft downstream at different datum.

REMARKS.--Records good except estimated daily discharges, which are poor. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft³/s Mar. 25, 1956; minimum recorded, 0.24 ft³/s Apr. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 687 ft³/s May 23; minimum daily, 60 ft³/s Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	432	499	251	105	99
2	---	---	---	---	---	---	---	475	452	256	111	95
3	---	---	---	---	---	---	---	484	394	264	106	94
4	---	---	---	---	---	---	---	494	332	271	102	95
5	---	---	---	---	---	---	---	499	210	282	99	93
6	---	---	---	---	---	---	---	423	207	312	96	93
7	---	---	---	---	---	---	---	359	213	386	107	92
8	---	---	---	---	---	---	---	316	215	503	109	89
9	---	---	---	---	---	---	---	266	275	544	106	85
10	---	---	---	---	---	---	---	223	340	430	104	71
11	---	---	---	---	---	---	---	237	369	441	104	71
12	---	---	---	---	---	---	---	249	421	386	100	65
13	---	---	---	---	---	---	---	223	423	320	100	65
14	---	---	---	---	---	---	---	195	410	309	101	67
15	---	---	---	---	---	---	---	150	386	316	114	63
16	---	---	---	---	---	---	---	129	373	267	115	63
17	---	---	---	---	---	---	---	168	355	242	119	62
18	---	---	---	---	---	---	---	260	346	239	116	62
19	---	---	---	---	---	---	---	297	326	242	112	62
20	---	---	---	---	---	---	---	344	276	217	109	62
21	---	---	---	---	---	---	---	535	290	189	106	e60
22	---	---	---	---	---	---	---	655	282	181	109	e62
23	---	---	---	---	---	---	---	687	271	165	109	e62
24	---	---	---	---	---	---	---	666	251	150	110	e64
25	---	---	---	---	---	---	---	620	244	137	110	e62
26	---	---	---	---	---	---	---	584	242	132	111	e63
27	---	---	---	---	---	---	---	577	232	127	115	e64
28	---	---	---	---	---	---	---	580	222	123	115	e70
29	---	---	---	---	---	---	---	584	227	119	112	e88
30	---	---	---	---	---	---	---	577	239	115	110	e95
31	---	---	---	---	---	---	---	547	---	107	104	---
TOTAL	---	---	---	---	---	---	---	12835	9322	8023	3346	2238
MEAN	---	---	---	---	---	---	---	414	311	259	108	74.6
MAX	---	---	---	---	---	---	---	687	499	544	119	99
MIN	---	---	---	---	---	---	---	129	207	107	96	60
AC-FT	---	---	---	---	---	---	---	25460	18490	15910	6640	4440

e Estimated

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION (REVISED).--Lat 42°17'36", long 110°52'18", in NE¼SW¼SW¼ sec.28, T.27 N., R.118 W., Lincoln County, Hydrologic Unit 16010102, on left bank 4.9 mi upstream from Howland Creek, 5.6 mi downstream from Hobble Creek, and 12.4 mi northeast of Border.

DRAINAGE AREA.--165 mi^2.

PERIOD OF RECORD.--May 194 to current year.

REVISED RECORDS.--WSP 1734: 1952(M).

GAGE.--Water-stage recorder. Elevation of gage is 6,720 ft from topographic map. Prior to Oct. 16, 1945, at site 1.2 mi downstream at different datum. Oct. 16, 1945 to Nov. 1986 at site 0.4 mi downstream at different datum.

REMARKS.--Records poor. One diversion for irrigation of about 200 acres above station.

AVERAGE DISCHARGE.--45 years, 201 ft^3/s, 145,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft^3/s June 4, 1986, gage height, 5.66 ft; minimum, 21 ft^3/s Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 353 ft^3/s May 21; minimum daily, 57 ft^3/s Feb. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	e110	e82	e70	e66	e60	e64	319	272	156	114	89
2	244	e107	e78	e74	e66	e58	e67	295	266	151	111	88
3	332	e109	e75	e72	e66	e58	e73	262	262	147	110	90
4	300	e104	e72	e73	e64	e60	e80	248	257	145	109	104
5	258	e99	e72	e74	e62	e60	e82	246	256	143	110	95
6	228	e99	e72	e72	e64	e62	e93	249	249	141	109	89
7	206	e98	e72	e67	e65	e66	e97	259	248	142	107	83
8	187	e98	e73	e61	e65	e66	e100	264	245	142	106	83
9	171	e100	e76	e63	e64	e66	e103	270	245	147	105	84
10	159	e102	e74	e68	e66	e66	e108	271	242	166	104	83
11	148	e99	e76	e71	e65	e66	e114	280	230	169	106	81
12	139	e105	e77	e73	e67	e68	e116	279	220	152	104	81
13	132	e103	e79	e76	e65	e70	e117	284	215	141	105	82
14	125	e103	e80	e76	e65	e70	e117	281	210	122	114	81
15	119	e101	e80	e76	e66	e68	e123	292	206	119	138	79
16	e113	e95	e85	e76	e68	e68	e139	305	203	120	124	78
17	e117	e95	e83	e77	e69	e68	e168	314	192	137	119	77
18	e119	e96	e82	e78	e66	e68	e197	338	186	128	109	79
19	e124	e99	e81	e80	e64	e68	e191	349	181	121	109	78
20	e129	e102	e79	e78	e62	e68	e176	347	178	118	110	76
21	e129	e100	e78	e76	e62	e66	e147	353	175	132	111	75
22	e125	e99	e76	e77	e62	e68	133	339	173	145	115	76
23	e121	e98	e75	e68	e61	e70	180	316	172	125	111	77
24	e118	e98	e75	e66	e60	e68	208	304	165	121	125	76
25	e116	e96	e75	e64	e58	e66	215	295	160	121	132	76
26	e112	e88	e77	e64	e58	e65	223	292	157	119	122	75
27	e108	e86	e80	e64	e57	e65	246	290	153	120	118	77
28	e110	e88	e77	e64	e59	e65	273	286	152	120	106	77
29	e108	e90	e72	e64	---	e63	290	291	159	119	103	76
30	e106	e86	e68	e65	---	e61	289	285	165	119	100	75
31	e110	---	e68	e64	---	e61	---	277	---	116	91	---
TOTAL	4843	2953	2369	2191	1782	2022	4529	9071	6194	4164	3457	2441
MEAN	156	98.4	76.4	70.7	63.6	65.2	151	293	206	134	112	81.4
MAX	332	110	85	80	69	70	290	353	272	169	138	104
MIN	106	86	68	61	57	58	64	246	152	116	91	75
AC-FT	9610	5860	4700	4350	3530	4010	8980	17990	12290	8260	6860	4840

CAL YR 1986 TOTAL 119149 MEAN 326 MAX 2000 MIN 52 AC-FT 236300
WTR YR 1987 TOTAL 46016 MEAN 126 MAX 353 MIN 57 AC-FT 91270

e Estimated

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY

LOCATION.--Lat 42°07'36", long 110°58'21", in NW¼SE¼NE¼ sec.28, T.25 N., R.119 W., Lincoln County, Hydrologic Unit 16010102, on left bank 1.1 mi upstream from Wyman Dam, 2.8 mi northwest of Cokeville, and 3.8 mi downstream from Smiths Fork.

DRAINAGE AREA.--2,447 mi^2.

PERIOD OF RECORD.--April 1954 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,140 ft from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by diversion for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

AVERAGE DISCHARGE.--33 years, 491 ft^3/s, 355,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,620 ft^3/s June 7, 1983, gage height, 8.75 ft; minimum, 31 ft^3/s Oct. 4, 5, 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft^3/s May 23, gage height, 4.76 ft; minimum daily, 134 ft^3/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	517	415	e300	e370	e440	452	661	887	427	202	e188
2	613	525	420	314	e370	e450	468	723	807	433	198	188
3	627	530	394	e300	e390	e460	553	730	731	425	197	186
4	660	545	378	314	397	e480	622	719	664	424	191	192
5	629	560	410	e310	e380	486	689	722	549	432	184	188
6	623	566	476	e300	e380	487	759	698	480	441	180	180
7	616	570	451	e295	e350	629	824	569	493	520	179	181
8	603	570	399	e270	e340	738	846	553	505	541	188	179
9	589	562	394	e250	e350	756	868	500	530	773	185	178
10	579	546	e390	e230	e360	723	956	438	624	619	181	169
11	566	511	399	e230	e370	705	927	440	656	604	177	155
12	554	582	e400	e210	e370	707	894	466	701	572	173	151
13	548	537	e400	e210	e380	705	846	455	743	488	168	143
14	536	531	388	e200	386	719	797	427	735	426	171	140
15	533	530	396	e190	376	715	773	406	705	450	201	142
16	537	536	391	e200	372	680	777	370	669	405	226	134
17	539	540	397	e200	396	663	777	393	627	390	217	135
18	544	537	408	e200	390	e620	679	508	593	365	212	136
19	553	545	363	e210	e390	e600	676	590	575	354	210	138
20	574	537	334	e210	e390	e560	664	631	510	346	209	145
21	571	527	e330	e220	e380	e475	570	796	506	316	e203	146
22	574	518	e320	e230	e380	e450	513	1040	499	322	e201	141
23	563	507	e328	e250	e400	e470	510	1150	491	298	e201	143
24	553	512	e330	e270	e420	e480	466	1150	495	274	e203	139
25	540	510	e305	e300	e420	e490	455	1090	465	253	e205	138
26	532	496	e300	e310	e420	484	471	1030	451	241	e205	139
27	521	484	327	e320	e440	470	500	1030	440	236	e205	138
28	513	478	e320	e310	e440	460	490	1010	422	229	e200	137
29	508	481	e315	e310	---	459	482	1030	417	224	e197	139
30	505	477	e310	e330	---	459	552	999	438	224	e192	173
31	512	---	e305	e350	---	458	---	955	---	216	e188	---
TOTAL	17518	15867	11493	8143	10809	17478	19856	22279	17408	12268	6049	4601
MEAN	565	529	371	263	386	564	662	719	580	396	195	156
MAX	660	582	476	350	440	756	956	1150	887	773	226	192
MIN	505	477	300	190	340	440	452	370	417	216	166	134
AC-FT	34750	31470	22800	16150	21440	34670	39380	44190	34530	24330	12000	9280

CAL YR 1986 TOTAL 403899 MEAN 1107 MAX 4180 MIN 140 AC-FT 801100
WTR YR 1987 TOTAL 163849 MEAN 449 MAX 1150 MIN 134 AC-FT 325000

e Estimated

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft NGVD of 1929, unadjusted.

REMARKS.--Records good except for estimated daily discharges, which are poor. Natural flow of stream affected by regulation of upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--50 years, 464 ft^3/s, 336,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft^3/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft^3/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 974 ft^3/s May 24, gage height, 4.54 ft; minimum discharge, 127 ft^3/s Sept. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	504	431	409	e380	e500	e400	404	558	821	356	210	174
2	513	440	419	e400	e480	e410	440	622	760	371	199	169
3	524	446	418	e420	e460	e420	520	638	668	383	201	169
4	546	459	411	e450	e430	e430	579	628	624	382	194	170
5	524	472	414	e480	e420	e460	644	634	556	390	189	170
6	512	481	443	e400	e420	e520	705	627	473	397	183	166
7	506	490	440	e330	e420	e550	766	534	467	441	179	162
8	494	492	388	e310	e410	e560	791	508	482	476	185	162
9	482	489	e360	e290	e400	e520	803	467	469	627	177	161
10	473	482	e320	e270	e420	e490	875	422	534	594	170	156
11	461	452	e340	e280	e540	e480	861	393	556	576	146	144
12	447	494	e380	e300	e500	e460	841	378	571	553	144	140
13	442	487	e390	e300	e470	e480	799	377	604	488	140	135
14	433	472	e390	e290	e490	e480	754	363	598	422	139	132
15	427	472	e380	e260	e460	e530	728	344	584	425	158	131
16	427	478	e330	e220	e420	e600	726	315	562	407	181	131
17	429	484	e370	e210	e420	e620	729	327	530	391	179	133
18	434	486	e350	e230	e450	e540	666	386	493	370	177	144
19	444	489	e330	e270	e450	e500	628	464	480	351	173	144
20	450	494	e370	e230	e430	e490	619	495	444	345	174	148
21	468	482	e390	e230	e410	e450	565	586	422	331	173	148
22	466	480	e400	e260	e420	e460	493	792	410	326	177	146
23	462	467	e390	e300	e430	e480	469	933	395	316	174	145
24	452	470	e390	e370	e430	e500	452	968	392	292	181	144
25	442	473	e400	e450	e410	e500	429	942	366	270	199	140
26	438	466	e410	e480	e390	e480	436	913	352	256	190	139
27	430	451	e410	e430	e380	e460	455	916	345	246	186	136
28	426	450	e410	e450	e390	447	469	904	336	241	189	137
29	423	458	e400	e410	---	434	432	911	334	236	190	138
30	423	455	e390	e420	---	413	488	898	358	231	184	152
31	428	---	e380	e440	---	414	---	866	---	224	180	---
TOTAL	14338	14142	12072	10560	12250	14978	18566	19109	14986	11714	5521	4466
MEAN	463	471	389	341	437	483	619	616	500	378	178	149
MAX	546	494	443	480	540	620	875	968	821	627	210	174
MIN	423	431	320	210	380	400	404	315	334	224	139	131
AC-FT	28440	28050	23940	20950	24300	29710	36830	37900	29720	23230	10950	8860

CAL YR 1986 TOTAL 395402 MEAN 1083 MAX 4180 MIN 150 AC-FT 784300
WTR YR 1987 TOTAL 152702 MEAN 418 MAX 968 MIN 131 AC-FT 302900

e Estimated

10039500 BEAR RIVER AT BORDER, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to 1981 water year, published in "Water Resources Data for Wyoming."

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to September 1981.
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE; Maximum daily, 1,580 microsiemens Dec. 27, 1975; minimum daily, 312 microsiemens Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1986 01...	1100	400	580	8.20	-3.5	0.0	5.1	--	610	K1	K18
MAR , 1987 27...	1320	459	710	8.10	2.0	3.0	78	10.7	610	K3	59
JUN 02...	0945	760	780	8.40	11.0	13.0	3[illegible]	7.6	610	K42	80
JUL 21...	1040	327	670	8.40	20.0	17.0	[illegible]	6.9	610	98	110
AUG 10...	1010	178	630	8.20	21.5	18.0	17	6.8	610	60	1100
26...	1130	188	580	8.30	12.5	14.5	--	7.9	610	100	54
SEP 03...	1020	164	570	8.20	14.5	16.0	--	7.2	610	240	380

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WH WAT TOTAL FIELD MG/L AS HCO3	CAR-BONATE WH WAT TOTAL FIELD MG/L AS CO3
DEC , 1986 01...	270	52	64	26	24	16	0.7	1.8	270	--
MAR , 1987 27...	300	64	67	32	38	21	1	2.9	290	--
JUN 02...	330	42	61	43	50	25	1	4.2	330	10
JUL 21...	300	34	65	34	35	20	0.9	2.9	310	10
AUG 10...	270	45	62	28	32	20	0.9	2.0	280	--
26...	--	--	--	--	--	--	--	--	260	--
SEP 03...	--	--	--	--	--	--	--	--	260	--

DATE	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
DEC , 1986 01...	215	69	22	0.20	5.5	341	340	0.46	368	<0.010
MAR , 1987 27...	236	83	45	0.20	8.1	427	420	0.58	529	<0.010
JUN 02...	287	80	49	0.20	13	479	480	0.65	1010	<0.010
JUL 21...	269	52	31	0.20	8.6	383	400	0.52	338	--
AUG 10...	225	66	29	0.20	7.7	368	360	0.50	177	--
26...	212	--	--	--	--	--	--	--	--	<0.010
SEP 03...	212	--	--	--	--	--	--	--	--	<0.010

K Results based on colony count outside acceptable range (non-ideal colony count).

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC , 1986										
01...	0.100	0.010	0.020	0.03	0.49	0.50	<0.010	<0.010	<0.010	--
MAR , 1987										
27...	0.120	0.110	0.040	0.05	0.49	0.60	0.160	0.020	0.010	0.03
JUN										
02...	<0.100	0.040	0.020	0.03	0.56	0.60	0.060	0.040	0.010	0.03
JUL										
21...	--	--	--	--	--	--	--	--	--	--
AUG										
10...	--	--	--	--	--	--	--	--	--	--
26...	<0.100	0.030	0.030	0.04	0.27	0.30	0.020	<0.010	0.020	0.06
SEP										
03...	<0.100	0.030	0.030	0.04	0.37	0.40	0.010	<0.010	<0.010	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
DEC , 1986											
01...	1100	<10	2	120	<0.5	<1	<1	<3	2	4	<5
MAR , 1987											
27...	1320	10	2	130	<0.5	<1	<1	<3	1	9	<5
JUL											
21...	1040	20	2	150	<0.5	<1	1	<3	1	7	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC , 1986										
01...	23	11	<0.1	<10	2	<1	<1	460	<6	3
MAR , 1987										
27...	25	20	<0.1	<10	2	<1	<1	500	<6	<3
JUL										
21...	17	3	<0.1	<10	<1	1	<1	470	<6	<3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1986						
01...	1100	400	0.0	88	76	82
MAR , 1987						
27...	1320	459	3.0	96	124	154
JUN						
02...	0945	780	13.0	99	125	263
JUL						
21...	1040	327	17.0	97	140	124
AUG						
10...	1010	178	18.0	89	93	45
26...	1130	188	14.5	94	81	41
SEP						
03...	1020	164	16.0	96	76	34

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi upstream from Wyoming-Idaho State line, 1.5 mi downstream from Giraffe Creek, and 3.5 mi northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi².

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--38 years, 58.5 ft³/s, 42,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,060 ft³/s May 15, 1984, gage height, 5.00 ft; minimum, 2.6 ft³/s Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 5	2100	*145	*1.76				

Minimum daily, 12 ft³/s Sept. 24-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	30	e19	e17	e20	e23	34	53	44	29	17	13
2	44	29	e18	e17	e20	e24	44	53	43	26	17	13
3	44	29	e17	e18	e20	e24	52	45	42	26	16	14
4	39	28	e17	e18	e20	e24	62	42	41	24	16	18
5	37	28	e17	e19	e18	e25	81	41	40	24	16	15
6	37	29	e17	e18	e18	e26	85	39	40	23	16	14
7	36	28	e17	e16	e19	e26	73	38	44	23	16	14
8	35	29	e17	e17	e19	e27	63	37	44	23	16	14
9	34	e27	e16	e16	e20	e27	57	37	45	24	16	14
10	34	e26	e15	e15	e21	e28	53	37	50	32	15	13
11	34	e25	e16	e15	e22	e29	55	37	41	31	15	13
12	33	e26	e16	e16	e22	e30	41	35	37	25	15	13
13	33	e25	e17	e16	e23	e30	39	35	36	23	15	13
14	32	e23	e17	e16	e23	29	44	35	35	22	18	13
15	32	21	e16	e15	e23	24	52	33	34	21	24	14
16	32	e21	e16	e16	e23	23	60	36	35	21	18	14
17	32	e22	e15	e16	e23	26	64	50	33	24	16	13
18	33	e22	e15	e16	e22	27	65	55	32	23	15	13
19	36	e23	e15	e15	e22	23	61	55	31	21	15	13
20	44	e23	e16	e15	e22	21	50	54	30	20	14	13
21	35	e22	e17	e15	e22	e20	45	56	30	25	15	13
22	34	e21	e17	e15	e22	e21	47	54	29	28	15	13
23	33	e20	e17	e16	e23	e20	50	48	29	21	14	13
24	32	e20	e17	e16	e22	e22	52	46	28	20	19	12
25	31	e20	e17	e17	e21	e21	50	47	27	19	21	12
26	31	e20	e18	e17	e21	22	49	49	27	19	16	12
27	31	e20	e18	e18	e21	20	47	50	26	19	15	12
28	30	e21	e18	e18	e22	20	46	49	26	19	14	12
29	31	21	e18	e18	---	e22	46	56	27	19	14	12
30	31	e20	e18	e18	---	e25	47	50	31	19	14	12
31	31	---	e18	e19	---	e28	---	46	---	18	13	---
TOTAL	1073	719	522	516	594	757	1614	1398	1057	711	496	397
MEAN	34.6	24.0	16.8	16.6	21.2	24.4	53.8	45.1	35.2	22.9	16.0	13.2
MAX	44	30	19	19	23	30	85	56	50	32	24	18
MIN	30	20	15	15	18	20	34	33	26	18	13	12
AC-FT	2130	1430	1040	1020	1180	1500	3200	2770	2100	1410	984	787

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CAL YR 1986   TOTAL  48160   MEAN  132    MAX  1020   MIN   8.7   AC-FT  95530
WTR YR 1987   TOTAL   9854   MEAN   27.0  MAX    85   MIN  12     AC-FT  19550
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e Estimated

10044300 DINGLE INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°12'20", long 111°16'08", in SE¼SE¼NE¼ sec.14, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi south of Dingle.

PERIOD OF RECORD.--June 1911 to current year. Prior to 1986, not published, records available from Utah Power & Light Co.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 650 ft³/s Apr. 29, 1918; no flow at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	3.8	29	21	21	26	29	3.0	11	3.7	15	9.5
2	12	3.6	28	21	21	27	29	3.3	11	3.4	14	5.8
3	12	3.4	27	20	22	27	29	3.5	12	3.1	22	7.4
4	11	3.2	27	20	22	27	29	3.8	12	2.9	20	14
5	10	3.1	26	20	22	27	29	4.1	12	2.6	16	18
6	9.7	3.1	25	20	22	27	29	4.3	11	2.3	15	17
7	9.0	4.6	25	20	22	27	29	4.6	11	2.0	15	15
8	8.3	6.2	24	20	23	28	29	4.8	11	1.7	14	16
9	8.1	7.7	23	20	23	28	29	5.1	10	2.2	3.8	16
10	7.9	9.3	23	20	23	28	29	5.4	10	2.8	1.8	14
11	7.7	11	22	20	23	28	29	5.6	9.7	3.3	1.8	13
12	7.5	12	21	20	23	28	29	5.9	9.4	3.9	1.5	13
13	7.3	14	21	20	23	28	29	6.1	9.1	4.4	1.3	15
14	7.2	15	20	20	24	29	30	6.4	8.8	5.0	8.7	12
15	7.0	17	19	20	24	29	30	6.6	8.5	5.5	17	5.6
16	6.8	19	19	20	24	29	30	6.9	8.2	6.1	16	5.1
17	6.6	20	19	20	24	29	30	7.2	7.9	6.7	14	5.0
18	6.4	22	19	20	24	29	27	7.4	7.6	7.2	18	8.4
19	6.2	23	19	20	25	29	25	7.7	7.3	7.8	19	16
20	6.0	25	19	20	25	29	23	7.9	7.0	8.3	15	16
21	5.9	26	19	20	25	29	21	8.2	6.7	8.9	15	14
22	5.7	28	19	20	25	29	18	8.4	6.4	9.4	16	13
23	5.5	29	19	20	25	28	16	8.7	6.1	10	9.1	9.6
24	5.3	31	20	20	25	28	14	9.0	5.8	11	13	1.5
25	5.1	33	20	20	26	28	12	9.2	5.5	11	17	1.5
26	4.9	32	20	20	26	28	9.3	9.5	5.2	12	13	1.3
27	4.7	31	20	20	26	29	7.0	9.7	4.9	12	14	.97
28	4.5	31	20	21	26	29	4.8	10	4.6	13	14	1.2
29	4.4	30	20	21	---	29	2.5	10	4.3	19	13	.79
30	4.2	29	20	21	---	29	2.8	11	4.0	18	13	4.5
31	4.0	---	21	21	---	29	---	11	---	15	13	---
TOTAL	223.9	526.0	673	626	664	874	679.4	214.3	248.0	224.2	399.0	290.16
MEAN	7.22	17.5	21.7	20.2	23.7	28.2	22.6	6.91	8.27	7.23	12.9	9.67
MAX	13	33	29	21	26	29	30	11	12	19	22	18
MIN	4.0	3.1	19	20	21	26	2.5	3.0	4.0	1.7	1.3	.79
AC-FT	444	1040	1330	1240	1320	1730	1350	425	492	445	791	576

CAL YR 1986 TOTAL 6803.48 MEAN 18.6 MAX 65 MIN .00 AC-FT 13490
WTR YR 1987 TOTAL 5641.92 MEAN 15.5 MAX 33 MIN .79 AC-FT 11190

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW¼SW¼SE¼ sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft NGVD of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from Bear River at Stewart Dam in NE¼ sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--65 years, 381 ft^3/s, 276,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft^3/s May 27 1984; no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 864 ft^3/s Apr. 13; minimum daily, 61 ft^3/s Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	M[illegible]	APR	MAY	JUN	JUL	AUG	SEP
1	511	445	419	242	256	306	418	159	643	215	187	124
2	518	442	314	248	259	345	422	177	575	210	178	129
3	547	443	309	268	249	319	402	212	511	220	163	134
4	548	445	324	284	244	297	434	244	427	246	162	141
5	557	467	389	313	308	282	521	256	358	250	157	140
6	546	491	416	308	293	271	595	247	349	253	147	137
7	517	492	461	309	295	252	661	282	279	222	138	134
8	503	489	515	304	282	290	728	309	214	340	135	130
9	491	491	269	330	295	450	706	242	220	418	129	128
10	481	484	221	329	283	639	815	189	224	594	107	126
11	474	463	284	286	308	744	812	147	223	549	86	125
12	467	456	305	241	302	759	855	119	288	521	80	123
13	454	506	324	229	302	743	864	82	366	495	80	118
14	446	471	374	260	334	725	855	79	393	399	82	116
15	457	481	376	251	322	733	813	77	414	298	113	116
16	513	495	334	257	334	756	772	77	415	295	112	105
17	469	497	313	263	324	709	748	75	390	318	116	106
18	467	498	270	225	314	667	744	79	341	367	119	104
19	490	502	250	197	360	706	715	93	284	322	120	98
20	508	514	277	230	398	738	688	79	210	311	121	99
21	526	505	317	244	405	662	612	100	193	323	122	100
22	523	477	301	236	384	627	611	150	150	334	125	106
23	518	463	287	216	349	591	460	240	207	301	140	112
24	504	455	293	220	322	560	277	576	234	291	152	86
25	489	447	287	247	363	527	256	712	231	276	177	67
26	476	460	287	244	323	506	200	742	256	251	172	68
27	467	441	293	241	420	496	194	717	245	232	164	65
28	471	435	306	249	373	488	187	705	232	228	155	61
29	459	427	294	264	---	468	160	704	225	228	150	65
30	453	414	275	266	---	457	157	713	196	228	145	86
31	445	---	283	259	---	440	---	691	---	207	137	---
TOTAL	15295	14096	9967	8040	9001	16553	16762	9254	9293	9742	4171	3249
MEAN	493	470	322	259	321	534	559	299	310	314	135	108
MAX	557	514	515	330	420	759	864	742	643	594	187	141
MIN	445	414	221	197	244	252	157	75	150	207	80	61
AC-FT	30340	27960	19770	15950	17850	32830	33250	18360	18430	19320	8270	6440

CAL YR 1986 TOTAL 427951 MEAN 1172 MAX 4300 MIN 124 AC-FT 848800
WTR YR 1987 TOTAL 125423 MEAN 344 MAX 864 MIN 61 AC-FT 248800

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NW¼NW¼NE¼ sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft downstream from Stewart Dam and 4.5 mi south of Montpelier.

DRAINAGE AREA.--2,853 mi^2.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January to September 1922, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Water diverted at Stewart Dam through Rainbow Inlet Canal (station 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--65 years, 43.6 ft^3/s, 31,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft^3/s June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 52 ft^3/s May 24, 25; minimum daily, 3.6 ft^3/s Jan. 19-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.5	4.9	4.1	4.3	5.4	5.2	8.5	25	10	9.2	14
2	12	7.0	4.9	4.1	4.3	5.4	5.5	10	19	9.9	9.3	14
3	13	7.0	4.9	4.1	4.3	5.4	5.7	12	15	11	9.1	14
4	13	7.1	4.8	4.0	4.2	5.5	6.0	12	14	11	9.0	15
5	13	6.2	4.8	4.0	4.3	5.5	6.3	11	13	10	9.1	14
6	13	6.1	4.8	4.0	4.3	5.6	7.1	13	11	10	9.2	13
7	13	6.0	4.8	4.0	4.4	6.2	8.1	14	11	10	9.7	13
8	13	6.0	4.7	3.9	4.4	10	9.9	11	10	11	9.3	13
9	13	5.9	4.7	3.9	4.5	16	10	9.3	10	12	8.7	13
10	13	5.9	4.7	3.9	4.5	13	9.8	8.1	10	16	7.7	13
11	11	5.8	4.7	3.9	4.6	12	11	7.6	10	15	7.9	13
12	9.8	5.8	4.6	3.8	4.6	11	11	6.8	11	15	9.2	13
13	9.5	5.7	4.6	3.8	4.7	11	9.9	6.4	11	15	9.7	13
14	9.4	5.7	4.6	3.8	4.7	11	8.3	6.5	12	13	9.8	13
15	9.3	5.6	4.6	3.8	4.8	13	7.3	6.7	12	12	11	13
16	8.9	5.5	4.5	3.7	4.8	12	6.9	6.4	11	13	11	13
17	8.7	5.5	4.5	3.7	4.8	8.8	7.0	6.4	11	12	11	13
18	8.6	5.4	4.5	3.7	4.9	9.9	7.1	6.4	11	12	12	13
19	8.5	5.4	4.4	3.6	4.9	11	6.6	8.2	11	12	12	13
20	8.5	5.3	4.4	3.6	5.0	8.0	6.4	9.4	10	11	12	13
21	8.4	5.3	4.4	3.6	5.1	8.1	6.2	11	9.9	11	12	13
22	8.4	5.2	4.4	3.6	5.2	7.6	5.9	19	10	10	12	12
23	8.3	5.2	4.3	4.6	5.4	7.2	6.0	40	10	9.9	13	12
24	8.1	5.1	4.3	4.6	5.4	6.8	6.4	52	10	9.9	15	11
25	8.0	5.0	4.3	4.5	5.4	6.5	6.4	52	11	9.9	17	11
26	8.0	5.0	4.3	4.5	5.4	6.3	6.3	38	12	9.9	17	11
27	8.0	5.0	4.2	4.5	5.3	6.2	6.0	29	12	9.6	16	11
28	7.8	5.0	4.2	4.4	5.3	6.0	6.2	29	11	9.0	16	11
29	7.9	5.0	4.2	4.4	---	5.9	8.5	29	11	9.1	16	11
30	8.3	4.9	4.2	4.4	---	5.7	8.0	25	9.9	9.0	16	12
31	8.0	---	4.1	4.4	---	5.2	---	27	---	9.1	15	---
TOTAL	309.4	171.1	140.3	124.9	133.8	257.2	221.0	532.7	354.8	347.3	360.9	381
MEAN	9.98	5.70	4.53	4.03	4.78	8.30	7.37	17.2	11.8	11.2	11.6	12.7
MAX	13	7.5	4.9	4.6	5.4	16	11	52	25	16	17	15
MIN	7.8	4.9	4.1	3.6	4.2	5.2	5.2	6.4	9.9	9.0	7.7	11
AC-FT	614	339	278	248	265	510	438	1060	704	689	716	756

CAL YR 1986 TOTAL 6795.9 MEAN 18.6 MAX 495 MIN 1.7 AC-FT 13480
WTR YR 1987 TOTAL 3334.4 MEAN 9.14 MAX 52 MIN 3.6 AC-FT 6610

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'16", long 111°18'52", in NE¼ sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Co., 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi², approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft Utah Power & Light Co. datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow Inlet Canal (station 10046000) and Dingle Inlet Canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet Canal (station 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,261,000 acre-ft Oct. 1, 2, elevation, 5,921.37 ft; minimum, 1,000,000 acre-ft Sept. 28-30, elevation, 5,917.62 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,917	956,900	5,921	1,235,000
5,918	1,026,000	5,922	1,305,000
5,919	1,095,000	5,923	1,375,000
5,920	1,165,000		

RESERVOIR STORAGE, IN THOUSANDS OF ACRE FEET, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1261	1196	1125	1069	1052	1051	1088	1121	1129	1106	1077	1033
2	1261	1194	1122	1068	1052	1051	1088	1123	1129	1103	1076	1033
3	1259	1192	1120	1067	1051	1051	1088	1125	1131	1099	1075	1032
4	1257	1190	1118	1067	1051	1051	1088	1125	1132	1095	1074	1032
5	1255	1187	1116	1066	1051	1052	1088	1126	1133	1093	1072	1031
6	1252	1184	1114	1066	1051	1052	1088	1127	1134	1090	1071	1030
7	1251	1180	1112	1066	1051	1052	1088	1129	1134	1088	1069	1029
8	1250	1176	1110	1065	1051	1053	1089	1129	1134	1087	1067	1027
9	1249	1173	1107	1065	1050	1053	1090	1130	1136	1086	1065	1026
10	1247	1169	1105	1065	1050	1053	1092	1130	1137	1085	1063	1024
11	1245	1167	1103	1065	1049	1054	1092	1130	1137	1085	1059	1022
12	1242	1165	1100	1064	1049	1054	1093	1129	1138	1084	1056	1022
13	1238	1161	1098	1063	1049	1055	1095	1129	1139	1084	1054	1020
14	1235	1159	1095	1063	1049	1056	1096	1127	1140	1083	1051	1019
15	1232	1157	1092	1063	1049	1057	1097	1127	1141	1082	1049	1018
16	1229	1155	1090	1062	1049	1058	1099	1126	1141	1081	1048	1017
17	1227	1152	1088	1061	1049	1061	1102	1125	1140	1080	1047	1015
18	1225	1150	1087	1061	1050	1063	1104	1125	1139	1079	1045	1013
19	1223	1148	1085	1060	1050	1065	1105	1125	1138	1078	1045	1012
20	1221	1146	1083	1059	1051	1067	1107	1123	1137	1076	1044	1010
21	1219	1144	1081	1058	1051	1070	1108	1123	1136	1075	1043	1008
22	1217	1142	1079	1058	1051	1072	1110	1123	1134	1074	1042	1007
23	1215	1141	1078	1057	1051	1075	1111	1123	1131	1074	1041	1005
24	1213	1139	1077	1056	1051	1077	1113	1123	1129	1076	1040	1004
25	1211	1137	1076	1056	1051	1079	1113	1124	1126	1076	1040	1002
26	1209	1135	1075	1055	1051	1081	1114	1125	1123	1076	1039	1002
27	1207	1133	1074	1055	1051	1081	1114	1125	1120	1076	1038	1001
28	1205	1131	1073	1054	1051	1083	1115	1126	1116	1077	1038	1000
29	1203	1129	1072	1054	---	1084	1117	1127	1113	1077	1036	1000
30	1201	1127	1070	1054	---	1085	1119	1127	1111	1077	1036	1000
31	1199	---	1070	1053	---	1086	---	1128	---	1077	1035	---
MAX	1261	1196	1125	1069	1052	1086	1119	1130	1141	1106	1077	1033
MIN	1199	1127	1070	1053	1049	1051	1088	1121	1111	1074	1035	1000
(#)	5920.48	5919.45	5918.63	5918.39	5918.37	5918.87	5919.34	5919.47	5919.22	5918.74	5918.13	5917.62
(*)	-63	-72	-57	-17	-2	+35	+33	+9	-17	-34	-42	-35

WTR YR 1987 . . . . . . (*) -262

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW¼NW¼SW¼ sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft NGVD of 1929, unadjusted.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--65 years, 427 ft³/s, 309,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,080 ft³/s June 19-21, 1986; minimum daily, 1.0 ft³/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,700 ft³/s Nov. 21; minimum daily, 3.0 ft³/s many days in March-May.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	907	1660	1600	859	739	397	3.0	3.0	37	1220	608	344
2	995	1650	1590	822	700	392	3.0	3.0	36	1180	599	345
3	1450	1640	1580	779	681	390	3.0	3.0	38	1170	605	349
4	1590	1610	1580	774	678	390	3.0	3.0	40	1160	666	335
5	1610	1590	1590	775	654	391	3.0	3.0	42	1150	660	320
6	1630	1600	1600	662	661	392	3.0	178	47	1130	649	317
7	1630	1610	1610	469	665	400	3.0	304	53	1090	641	311
8	1630	1620	1620	416	673	411	3.0	316	191	948	628	310
9	1620	1620	1430	509	682	328	3.0	322	356	860	616	306
10	1620	1620	1130	414	690	116	3.0	331	373	892	605	280
11	1620	1600	928	478	680	3.0	3.0	432	378	912	612	251
12	1620	1600	953	490	678	3.0	3.0	575	484	910	670	245
13	1600	1610	974	507	388	3.0	3.0	623	628	864	730	238
14	1600	1620	994	568	350	3.0	3.0	614	633	815	756	189
15	1620	1630	1010	631	384	3.0	3.0	604	635	815	775	144
16	1640	1650	1030	639	394	3.0	3.0	601	699	798	702	179
17	1640	1660	1010	642	433	3.0	3.0	609	782	745	749	198
18	1660	1660	980	639	452	3.0	3.0	633	819	690	668	200
19	1670	1580	981	645	445	3.0	3.0	648	866	682	623	204
20	1680	1690	992	647	442	3.0	3.0	638	909	672	549	208
21	1660	1700	1000	644	436	3.0	3.0	633	1020	588	469	212
22	1640	1690	1010	638	423	3.0	3.0	539	1070	481	467	212
23	1610	1670	1010	634	411	3.0	3.0	435	1140	396	451	210
24	1620	1660	994	640	397	3.0	3.0	412	1180	306	378	208
25	1630	1660	974	649	398	3.0	3.0	385	1180	293	267	206
26	1630	1660	976	653	418	3.0	3.0	261	1180	282	210	209
27	1640	1660	990	836	467	3.0	3.0	118	1210	290	324	209
28	1650	1660	1000	649	414	3.0	3.0	38	1210	310	330	190
29	1650	1670	1010	708	---	3.0	3.0	35	1200	480	334	107
30	1660	1630	983	731	---	3.0	3.0	36	1213	650	337	3.2
31	1660	---	916	749	---	3.0	---	42	---	574	337	---
TOTAL	49082	49270	36045	19756	14833	3670.0	90.0	10377.0	19626	23351	17094	7037.2
MEAN	1583	1642	1163	637	530	118	3.00	335	654	753	551	235
MAX	1680	1700	1620	859	739	411	3.0	648	1210	1220	782	349
MIN	907	1590	916	416	350	3.0	3.0	3.0	36	282	210	3.2
AC-FT	97350	97730	71500	39190	29420	7280	179	20580	38930	46320	33910	13960

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CAL YR 1986   TOTAL  507430.0   MEAN  1390   MAX  3080   MIN  368    AC-FT  1006000
WTR YR 1987   TOTAL  250231.2   MEAN   686   MAX  1700   MIN    3.0  AC-FT   496300
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10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW¼SW¼SE¼ sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 6.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi^2.

PERIOD OF RECORD.--October 1921 to September 1954. June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--51 years, 670 ft^3/s, 485,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,280 ft^3/s June 21, 1986; minimum daily, 23 ft^3/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,930 ft^3/s Nov. 22; minimum daily, 129 ft^3/s Apr. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150	1860	1830	1080	948	556	186	135	315	1290	706	426
2	1180	1860	1820	1040	952	523	196	153	296	1280	700	421
3	1510	1860	1810	1010	941	514	192	155	253	1270	677	428
4	1690	1850	1810	1010	940	516	194	165	246	1270	711	434
5	1770	1830	1810	1030	e940	517	203	205	245	1280	730	409
6	1820	1830	1820	1010	975	524	215	240	245	1270	727	403
7	1840	1830	1830	921	e980	539	225	443	256	1250	725	399
8	1840	1840	1820	661	1000	585	225	509	283	1190	714	397
9	1840	1850	1780	621	1000	620	224	506	538	1080	712	396
10	1830	1860	1730	757	966	412	222	498	646	1060	706	396
11	1820	1870	1550	722	1000	310	214	515	656	1070	692	359
12	1810	1860	1210	821	985	272	199	690	655	1070	737	350
13	1800	1870	1180	812	922	276	194	806	831	1050	816	347
14	1780	1880	1180	814	475	273	187	837	893	975	840	341
15	1790	1890	1190	824	495	276	184	820	890	939	862	269
16	1800	1890	1190	885	498	279	180	806	887	919	883	279
17	1810	1900	1180	897	505	289	178	811	942	905	880	298
18	1830	1910	1160	e910	568	281	175	837	959	838	813	302
19	1850	1920	1140	918	598	257	173	863	1020	802	740	304
20	1880	1920	1150	948	591	240	179	893	1050	786	709	309
21	1890	1920	1150	938	573	222	160	930	1110	770	603	311
22	1880	1930	1160	903	579	211	155	968	1170	633	598	311
23	1860	1910	1170	e905	565	201	155	885	1240	571	601	308
24	1830	1890	1160	908	554	192	151	857	1290	427	598	302
25	1330	1870	1140	890	541	189	146	828	1310	374	496	294
26	1830	1860	1120	894	523	190	139	784	1310	359	350	292
27	1830	1860	1130	913	546	178	136	588	1370	353	402	289
28	1840	1870	1140	911	574	188	132	433	1380	392	440	293
29	1840	1870	1170	e910	---	160	131	364	1330	436	435	263
30	1850	1850	1130	e935	---	182	129	344	1290	704	431	160
31	1860	---	1120	e940	---	179	---	327	---	679	426	---
TOTAL	54980	56210	42780	27738	20734	10151	5379	18195	24906	27292	20460	10090
MEAN	1774	1874	1380	895	740	327	179	587	830	880	660	336
MAX	1890	1930	1830	1080	1000	620	225	968	1380	1290	883	434
MIN	1150	1830	1120	621	475	160	129	135	245	353	350	160
AC-FT	109100	111500	84850	55020	41130	20130	10670	36090	49400	54130	40580	20010

CAL YR 1986 TOTAL 647146 MEAN 1773 MAX 4280 MIN 375 AC-FT 1284000
WTR YR 1987 TOTAL 318915 MEAN 874 MAX 1930 MIN 129 AC-FT 632600

e Estimated

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW¼SW¼NW¼ sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi^2.

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geological Survey open-file report).

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--34 years, 774 ft^3/s, 560,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft^3/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft^3/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,080 ft^3/s Nov. 19, 21; minimum daily, 264 ft^3/s Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1490	e1940	1940	1160	877	745	331	270	395	1240	677	441
2	e1290	e1970	1930	1160	935	711	341	291	380	1230	692	438
3	e1420	e1970	1930	1180	945	697	347	296	341	1210	667	446
4	e1650	e1780	1920	1090	948	669	345	291	314	1200	667	470
5	e1870	e1680	1920	1100	1040	626	347	304	302	1210	715	452
6	e1840	e1810	1930	1100	1140	638	355	351	300	1200	713	432
7	e1850	e1940	1940	935	1060	674	368	434	305	1190	705	427
8	e1960	e1920	1920	818	1120	769	375	627	326	1150	701	424
9	e1890	e1950	1890	757	1050	891	371	630	429	1060	691	418
10	e1920	e1950	1790	697	978	823	364	617	669	1030	693	417
11	e1920	2000	1670	687	1070	605	367	619	686	1040	697	404
12	e1930	2000	1550	725	1000	465	348	719	668	1030	689	360
13	e1890	2000	1490	764	984	462	321	874	768	1020	754	357
14	e1830	2000	1400	824	785	457	320	927	894	968	841	360
15	e1890	2020	1310	855	581	444	313	911	888	910	883	343
16	e1890	2030	1300	855	630	431	319	890	884	880	908	284
17	e1880	2050	1310	855	612	464	316	896	931	879	901	310
18	e1990	2050	1370	860	654	465	315	955	971	821	866	323
19	e1920	2080	1270	862	681	405	314	980	1010	772	790	328
20	e1890	2070	1220	868	680	375	312	1000	1060	754	746	329
21	e1900	2080	1230	869	723	355	314	1050	1080	788	690	332
22	e1900	2070	1330	865	791	349	289	1080	1150	703	620	333
23	e1970	2050	1270	869	676	331	282	1030	1190	578	629	335
24	e2070	2030	1240	871	694	333	284	947	1250	491	641	330
25	e1920	2000	1210	877	697	325	282	932	1270	383	586	322
26	e1910	1960	1200	876	658	339	280	902	1260	361	460	315
27	e1870	1970	1210	865	610	311	274	806	1280	350	364	314
28	e1960	1970	1250	862	721	318	269	610	1320	369	457	317
29	e1940	1980	1260	873	---	287	264	480	1280	401	460	310
30	e1940	1950	1270	871	---	300	265	456	1240	544	448	275
31	e1930	---	1210	848	---	313	---	424	---	701	443	---
TOTAL	57390	59270	46680	27698	23340	15377	9592	21607	24841	26463	20794	10946
MEAN	1851	1976	1506	893	834	496	320	697	828	854	671	365
MAX	2070	2080	1940	1180	1140	891	375	1080	1320	1240	908	470
MIN	1290	1680	1200	687	581	287	264	270	300	350	364	275
AC-FT	113800	117600	92590	54940	46290	30500	19030	42860	49270	52490	41240	21710

CAL YR 1986 TOTAL 764560 MEAN 2095 MAX 4460 MIN 820 AC-FT 1517000
WTR YR 1987 TOTAL 343998 MEAN 942 MAX 2080 MIN 264 AC-FT 682300

e Estimated

10079000 SODA POINT RESERVOIR AT ALEXANDER, ID

LOCATION.--Lat 42°38'41", long 111°42'44", in NW¼SE¼NW¼ sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, 0.5 mi Southeast of Alexander, 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi², approximately.

PERIOD OF RECORD.--October 1924 to current year. Prior to 1986, published in reports of the Bear River Commission.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 14,530 acre-ft Dec. 15, elevation, 5,719.88 ft; minimum, 9,910 acre-ft Oct. 1, elevation, 5,714.85 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9910	13110	13120	12860	13530	13080	13020	13590	13040	13500	13170	13210
2	12600	13060	13060	12980	13500	13200	13120	13730	12950	13340	13080	13220
3	13470	13060	13000	12760	13480	13280	13250	13780	12920	13170	12990	13230
4	12720	13020	12930	12920	13490	13380	13280	13830	12810	13020	12810	13270
5	12470	13020	12840	13020	13390	13500	13340	13750	12800	12820	12720	13310
6	12340	12950	12810	13060	13340	13500	13430	13730	12820	12680	12660	13310
7	12430	12860	12780	12980	13280	13420	13530	13750	12890	12760	12810	13310
8	12620	12770	12720	12530	13260	13510	13610	13670	12960	12840	12970	13280
9	12740	12760	12740	12190	13220	13720	13570	13690	12960	13040	13120	13220
10	12810	12730	12490	12120	13230	13840	13500	13680	13340	13400	13270	13200
11	12870	12680	13260	12640	13220	13570	13420	13520	13560	13620	13390	13170
12	12900	12670	13560	13170	13170	12970	13360	12980	13620	13920	13050	13040
13	12910	12670	13870	13260	13240	12320	13250	13000	13160	14270	13670	12920
14	12910	12660	14330	13240	13140	12420	13100	12870	13060	14160	13670	12890
15	12910	12670	14530	13220	12470	12490	12950	12880	13150	13850	13790	12950
16	12910	12740	14090	13230	12470	12530	12850	12950	13140	13520	13690	12950
17	12890	12780	13540	13200	12490	12590	12850	13010	12980	13240	13620	12860
18	12890	12850	13370	13280	12510	12800	12950	13200	12920	13240	13490	12870
19	12940	12930	13450	13550	12600	12810	13070	13400	12930	13170	13360	12990
20	12940	13020	13580	13490	12780	12720	13240	13620	13250	13210	13380	13120
21	12940	13040	13490	13430	12810	12590	13340	13860	13020	13350	13390	13250
22	12940	13040	13270	13410	12870	12540	13440	14000	13070	13520	13300	13360
23	12680	13040	13240	13410	13060	12470	13470	14110	13100	13320	13280	13440
24	13660	13400	13350	13480	13180	12570	13540	14070	13180	13090	13280	13520
25	13550	13420	13350	13510	13220	12660	13580	13930	13240	12950	13280	13520
26	13430	13300	13190	13550	13240	12770	13580	13820	13330	12780	13090	13490
27	13240	13240	13060	13500	13100	13400	13590	13710	13400	12660	13070	13490
28	13210	13210	12790	13470	13000	12850	13600	13190	13470	12760	13040	13470
29	13160	13210	12410	13450	---	12870	13570	13270	13520	12920	13100	13420
30	13110	13180	12690	13450	---	12890	13580	13280	13520	13130	13170	13120
31	13110	---	12990	13450	---	12930	---	13190	---	13300	13200	---
MAX	13660	13420	14530	13550	13530	13840	13610	14110	13620	14270	13790	13520
MIN	9910	12660	12410	12120	12470	12320	12850	12670	12800	12660	12660	12860
(#)	5718.49	5718.56	5718.36	5718.83	5718.37	5718.30	5718.96	5718.57	5718.90	5718.68	5718.58	5718.50
(*)	+6350	+70	-190	+460	-450	-70	+650	-390	+330	-220	-100	-80

WTR YR 1987 . . . . . (*) +6360

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE¼SW¼NW¼ sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi southeast of Alexander; and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi^2.

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--76 years, 826 ft^3/s, 598,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft^3/s Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum, 15 ft^3/s Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,220 ft^3/s Oct. 25, 26; minimum daily, 144 ft^3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	2200	2130	1340	1110	808	421	385	647	1420	916	558
2	566	2190	2130	1330	1130	802	420	382	584	1440	908	558
3	1940	2180	2110	1330	1130	803	439	380	535	1430	903	561
4	2220	2130	2110	1320	1140	805	455	433	471	1430	892	574
5	2160	2190	2110	1320	1140	851	454	464	404	1440	887	581
6	2030	2170	2100	1280	1130	920	453	450	381	1360	811	583
7	2070	2180	2020	1240	1130	956	452	565	384	1300	760	585
8	2080	2190	2010	1060	1120	962	524	738	407	1270	756	586
9	2100	2160	1420	810	1120	999	563	734	437	1140	752	588
10	2100	2180	1300	550	1120	1010	562	730	601	1070	822	590
11	2100	2190	1300	550	1120	1010	560	885	769	1120	512	591
12	2110	2180	1300	795	1160	984	559	1000	889	1060	741	593
13	2120	2180	1310	957	1170	888	558	1010	1060	1130	930	458
14	2120	2170	1370	983	1160	645	556	986	1030	1280	927	453
15	2130	2180	1540	983	967	642	555	971	941	1270	996	455
16	2120	2180	1620	982	824	639	484	969	1040	1290	1060	463
17	2120	2190	1530	972	818	637	401	967	1050	1150	1070	415
18	2120	2190	1440	954	822	600	375	967	1050	1050	1060	385
19	2130	2200	1440	999	821	654	374	967	955	988	978	387
20	2140	2170	1470	1040	729	650	364	967	1030	928	855	385
21	2150	2180	1480	1020	765	592	368	1030	1140	916	859	382
22	2160	2180	1480	1020	780	554	369	1110	1180	909	838	394
23	2160	2180	1470	1010	789	469	369	1100	1180	907	769	406
24	2170	2170	1470	1030	817	422	369	1110	1230	812	765	443
25	2220	2130	1470	1040	836	421	383	1110	1260	668	766	463
26	2220	2170	1470	1070	835	426	386	1110	1270	625	795	466
27	2210	2150	1470	1090	834	427	389	1050	1330	521	520	465
28	2200	2140	1470	1090	831	424	391	929	1380	417	526	464
29	2190	2140	1370	1080	---	424	399	682	1390	416	548	547
30	2190	2130	1260	1080	---	423	386	681	1370	580	542	638
31	2170	---	1310	1080	---	422	---	663	---	855	578	---
TOTAL	62660	65240	49480	32405	27348	21269	13338	25525	27395	32192	25044	15017
MEAN	2021	2175	1596	1045	977	686	445	823	913	1038	808	501
MAX	2220	2200	2130	1340	1170	1010	563	1110	1390	1440	1070	638
MIN	144	2130	1260	550	729	421	364	380	381	416	512	382
AC-FT	124300	129400	98140	64280	54240	42190	26460	50630	54340	63850	49670	29790

CAL YR 1986 TOTAL 778458 MEAN 2133 MAX 4170 MIN 144 AC-FT 1544000
WTR YR 1987 TOTAL 396913 MEAN 1087 MAX 2220 MIN 144 AC-FT 787300

10080000 BEAR RIVER BELOW GRACE DAM, NEAR GRACE, ID

LOCATION.--Lat 42°35'11", long 111°43'51", in NE¼SE¼NW¼ sec.1, T.10 S., R.40 E., Caribou County, Hydrologic Unit 16010202, on left bank 1,000 ft downstream from dam, and 1 mi north of Grace.

PERIOD OF RECORD.--April 1922 to November 1923 (fragmentary); March 1924 to current year. 1945 to 1950 published in reports on Bear River Hydrometric Data, water year 1946 published in WSP 1060.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,390 ft^3/s June 10, 1986, gage height 6.77 ft; minimum, 0.74 ft^3/s Feb. 2, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,580 ft^3/s Oct. 3, gage height 4.95 ft; minimum daily discharge, 2.3 ft^3/s Mar. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	1140	1130	340	87	4.8	3.3	10	10	108	14	9.1
2	21	1130	1130	342	101	6.1	3.4	10	9.9	19	13	8.8
3	763	1150	1120	335	107	42	3.5	25	9.3	40	12	8.5
4	1260	958	1110	322	103	4.1	3.6	25	8.7	58	11	8.0
5	1220	827	1110	319	106	4.3	3.7	14	9.5	61	13	9.3
6	1130	1080	1100	283	189	4.0	3.8	15	11	46	13	7.9
7	1100	1130	1100	249	107	3.9	3.8	18	11	12	13	7.9
8	1120	1130	1060	201	102	3.9	3.9	17	8.5	12	12	8.4
9	1110	1150	1030	179	102	7.4	3.9	16	9.3	12	14	7.4
10	1110	1110	688	180	173	15	4.0	16	15	14	13	8.1
11	1100	1130	300	173	100	14	4.1	110	13	28	12	8.4
12	1090	1120	302	182	133	18	4.2	161	17	12	18	7.8
13	1080	1170	305	167	143	17	4.3	17	10	12	60	8.0
14	1070	1180	381	166	157	3.4	4.4	19	20	13	93	8.1
15	1060	1180	572	165	72	3.4	4.5	18	14	14	51	9.2
16	1060	1180	649	186	11	3.2	4.6	20	13	13	9.9	9.2
17	1050	1180	550	170	11	3.1	4.7	19	11	12	10	8.8
18	1050	1180	441	169	9.7	2.9	4.8	20	12	13	9.5	8.4
19	1050	1180	437	169	6.1	2.8	4.9	20	11	15	17	7.9
20	1050	1180	455	168	9.8	2.7	5.0	21	12	13	31	8.7
21	1050	1170	471	181	6.2	2.6	5.1	27	9.1	13	31	7.5
22	1050	1180	468	180	5.9	2.6	5.3	76	10	12	17	8.5
23	1040	1170	465	181	5.8	2.5	5.4	60	15	12	9.7	9.1
24	1070	1190	463	187	5.5	2.3	4.9	58	11	13	9.8	7.4
25	1080	1170	464	183	5.1	2.5	4.3	105	12	12	11	7.9
26	1140	1180	466	181	4.9	2.6	4.2	50	12	15	13	7.8
27	1170	1170	467	173	5.5	2.7	6.1	71	11	13	11	7.8
28	1130	1150	468	133	40	2.9	9.2	15	11	12	9.3	7.8
29	1130	1140	392	119	---	3.1	17	11	15	12	8.7	11
30	1130	1140	249	106	---	3.1	16	11	29	12	8.9	7.3
31	1080	---	297	88	---	3.2	---	11	---	12	9.3	---
TOTAL	31577	34145	19630	6177	1908.5	196.1	159.9	1086	370.3	665	578.1	250.0
MEAN	1019	1138	633	199	68.2	6.33	5.33	35.0	12.3	21.5	18.6	8.33
MAX	1260	1190	1130	342	189	42	17	161	29	108	93	11
MIN	13	827	249	88	4.9	2.3	3.3	10	8.5	12	8.7	7.3
AC-FT	62630	67730	38940	12250	3790	389	317	2150	734	1320	1150	496

CAL YR 1986 TOTAL 398279.2 MEAN 1091 MAX 3700 MIN .82 AC-FT 790000
WTR YR 1987 TOTAL 96742.2 MEAN 265 MAX 1260 MIN 2.3 AC-FT 191900

10086000 ONEIDA NARROWS RESERVOIR AT ONEIDA, ID

LOCATION.--Lat 42°16'34", long 111°44'56", in SW¼NW¼SE¼ sec.23, T.13 S, R.40 E., Franklin County, Hydrologic Unit 16010202, 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi², approximately.

PERIOD OF RECORD.--October 1914 to current year. Prior to 1986, published in reports of Bear River Commission.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 12,860 acre-ft May 18, elevation, 4,882.25 ft; minimum, 2,590 acre-ft Oct. 1, 2, elevation, 4,841.00 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2590	12510	12560	12130	12400	12130	11180	12370	12170	11430	10060	12700
2	2590	12740	12550	12110	12280	12130	11190	12060	12140	11470	9430	12040
3	3490	12610	11910	12040	12350	11950	10420	12150	12150	11580	10170	12200
4	7250	12630	12360	12400	12020	12500	10710	11940	12080	11730	10910	12280
5	11780	12360	12360	11720	11840	11880	10750	12200	11940	12330	11320	12090
6	11580	12520	12530	11980	12210	12350	10150	12060	12100	11870	11410	12440
7	11500	12320	12030	12320	12520	12050	9890	12120	11950	11870	11160	12660
8	11970	12580	12380	12150	12520	12650	9610	12470	12100	12180	11090	12550
9	11730	12570	12430	11610	12280	11560	10750	12450	12120	11830	11070	12480
10	12690	12630	12150	11890	12350	11270	9440	12770	12140	11920	11200	12460
11	12060	12470	12020	11930	12350	11050	10400	12060	12410	12130	11180	12300
12	11880	12620	11790	12300	12350	11330	11210	12480	12300	12440	10790	12550
13	12540	12540	12050	12380	12200	11780	10390	12280	12200	12550	10280	12850
14	11930	12680	12400	12670	12370	11860	11300	12750	12630	12530	10810	12070
15	12550	12510	12500	12670	12510	11880	11700	12180	12240	12650	11220	11920
16	11990	12610	12660	12250	12130	11290	11560	12660	12700	12510	11440	12080
17	12630	12610	12600	12040	12220	11330	11570	12810	12590	12540	12290	12110
18	12020	12680	12390	12290	12510	11770	12240	12860	12520	12380	12640	12170
19	12780	12540	12090	12150	12400	11590	12730	12220	12320	12380	12750	12210
20	12630	12680	12570	12150	12290	11660	12120	12540	11720	12710	12750	12270
21	12060	12800	12060	12150	12310	11600	12090	12240	11270	12460	12140	12230
22	12660	12200	12180	11780	12510	11870	12150	12580	11370	12610	12510	12120
23	12710	12650	11950	12180	12570	11630	12170	12620	11160	12090	12820	12040
24	12260	12430	12260	12530	12250	10900	12200	12230	10770	12330	12510	11990
25	12260	12660	12500	12660	11910	10810	12420	12770	10560	12230	12480	11770
26	12500	12670	12140	12100	12340	10640	12420	12590	10680	12320	12630	11900
27	12400	12640	12220	12500	12340	10930	12180	12670	10610	12520	12350	12140
28	12220	12240	12010	12210	12130	10990	12180	12320	10630	12320	11290	12190
29	12480	12630	12200	12590	---	11180	12240	12050	11110	11360	11630	12420
30	12300	12710	12130	12580	---	11520	12310	12300	11300	11210	12060	12050
31	12510	---	12220	12290	---	11620	---	12170	---	10680	12510	---
MAX	12780	12800	12660	12670	12570	12650	12730	12860	12700	12710	12820	12850
MIN	2590	12200	11790	11610	11840	10640	9440	11940	10560	10680	9430	11770
(#)	4881.25	4881.83	4880.42	4880.62	4880.16	4878.68	4880.69	4880.27	4877.72	4875.80	4881.26	4879.93
(*)	+10170	+200	-490	+70	-160	-510	+690	-140	-870	-620	+1830	-460

WTR YR 1987 . . . . . (*) +9710

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE¼SE¼NW¼ sec.26, T.13 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi^2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--No estimated daily dishcarges. Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--66 years, 912 ft^3/s, 660,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft^3/s May 8, 1922; minimum, 3.0 ft^3/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,040 ft^3/s July 17, gage height, 6.35 ft; minimum daily, 23 ft^3/s Oct. 3, 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	2410	2460	1630	1230	1210	915	693	472	1090	1200	871
2	305	2300	2370	1580	1320	733	519	576	796	1110	713	783
3	23	2520	2770	1490	1480	1050	1000	396	299	1060	395	398
4	23	2390	1790	1490	1180	957	607	577	609	1090	384	900
5	1170	2620	2570	1600	1480	1160	365	384	534	1170	663	435
6	2440	2380	2280	1580	1240	1220	1140	704	263	1220	796	455
7	2180	2570	2530	1440	1440	979	1370	331	432	923	772	509
8	2170	2310	2280	1100	1220	1400	65	562	255	1030	697	691
9	2180	2450	2080	1190	1470	1580	724	453	347	994	810	612
10	2380	2410	2550	638	1240	1600	1020	728	249	930	688	557
11	2540	2540	1660	559	1390	1400	251	810	286	710	773	691
12	1910	2330	1260	595	1320	448	231	744	624	541	994	299
13	2770	2430	1660	973	1380	1310	1130	1230	972	881	800	467
14	1910	2150	1290	1140	1570	763	108	638	624	922	741	1200
15	2810	2650	1770	1320	1120	854	843	1030	872	1020	751	335
16	1990	2300	1450	1200	1230	1270	481	633	589	1110	835	391
17	2790	2540	1750	1030	1060	512	542	995	698	1070	694	420
18	1940	2430	1870	1080	1070	933	267	1010	958	969	998	371
19	2170	2540	1720	1710	914	531	317	890	911	803	1040	308
20	1260	2370	1840	1020	1060	903	925	1360	1050	543	1350	348
21	2820	2370	1320	896	908	752	478	825	897	909	810	402
22	2040	2800	1970	1270	755	524	617	1430	1010	826	609	478
23	2390	2150	1870	966	1220	756	403	968	1050	1050	821	414
24	2730	2590	1760	964	1090	1090	801	1350	1170	658	970	641
25	2420	2280	1500	1350	933	677	175	956	1110	794	939	516
26	2350	2390	1590	1460	779	706	670	1210	897	462	801	267
27	2520	2420	1890	1100	1050	658	541	1470	1020	415	1400	438
28	2570	2740	1660	1420	952	265	665	1030	970	1060	635	408
29	2280	2130	1460	1160	---	427	290	1100	771	495	338	414
30	2550	2340	1720	1210	---	394	411	564	1030	430	368	829
31	2340	---	1420	1330	---	810	---	828	---	1210	336	---
TOTAL	63041	73050	58110	37491	33101	27872	17871	26475	21865	27505	24121	15848
MEAN	2034	2435	1875	1209	1182	899	596	854	729	887	778	528
MAX	2820	2850	2770	1710	1570	1600	1370	1470	1170	1220	1400	1200
MIN	23	2130	1260	559	755	265	65	331	249	415	336	267
AC-FT	125000	144900	115300	74360	65660	55200	35450	52510	43370	54560	47840	31430

CAL YR 1986 TOTAL 878061 MEAN 2406 MAX 4070 MIN 23 AC-FT 1742000
WTR YR 1987 TOTAL 426350 MEAN 1168 MAX 2850 MIN 23 AC-FT 845700

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW¼NE¼ sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,850 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.8 mi upstream from Idaho-Utah State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,881 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft from topographic map. Prior to Sept. 10, 1982 at datum 2.00 ft higher. Sept. 10, 1982 to Sept. 30, 1985 at datum 10.0 ft lower.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--17 years, 1,444 ft^3/s, 1,046,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft^3/s June 14, 1984, gage height, 9.20 ft; minimum observed, 73 ft^3/s June 29, 1978. Maximum gage height, 19.19 ft , Feb. 19, 1986, at datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,960 ft^3/s Nov. 22, gage height, 16.38 ft; minimum daily, 172 ft^3/s Apr. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	2590	2620	1680	e1430	1080	907	339	994	1040	869	437
2	955	2480	2560	1720	1440	1040	831	e618	883	943	946	793
3	e700	2630	2920	1740	1420	1140	976	e386	871	808	e338	546
4	e300	2610	2280	1400	1640	872	810	e510	762	916	e310	502
5	e280	2670	2480	2040	1500	1410	737	e560	723	847	e328	722
6	2400	2540	2480	1540	1280	1080	989	e400	541	982	495	377
7	2480	2720	2850	1440	1200	1470	923	e700	518	922	597	442
8	2230	2490	2340	1690	1460	1130	1080	e330	401	648	500	550
9	2620	2620	2310	1550	1480	2080	e172	e540	e338	934	486	e648
10	2000	2560	2720	1440	1330	1580	1350	e410	353	710	433	e500
11	2840	2680	2180	e1350	1350	1560	525	e480	e246	648	510	e480
12	2650	2520	1880	e1380	1410	1380	e401	e700	e412	581	515	e540
13	2130	2660	1470	e1270	1560	1060	1030	850	672	541	684	e330
14	2890	2510	1560	e1370	1670	1230	535	702	524	792	445	e370
15	2130	2710	1800	e1550	1360	932	484	935	795	824	647	e640
16	2910	2570	1990	e1600	1450	1230	884	519	e385	913	684	366
17	2200	2590	1910	e1700	1090	1110	652	835	556	962	604	403
18	2880	2590	2020	e1400	899	716	e363	368	502	818	699	407
19	2120	2720	1970	e1500	1220	1130	365	1430	640	799	820	368
20	2580	2560	1610	e1500	1050	824	889	850	747	522	806	317
21	2860	2560	2070	e1320	977	1100	759	1370	763	785	1030	382
22	2250	2940	1750	e1340	940	774	587	1020	550	703	604	390
23	2510	2380	1970	e1370	995	875	622	1330	754	1020	522	417
24	2820	2750	1730	e1340	1220	1150	502	1610	909	625	837	407
25	2590	2480	1750	e1290	1160	1020	614	1100	842	736	836	529
26	2490	2580	2000	e1450	967	847	499	1460	688	519	740	450
27	2610	2610	1810	e1420	1120	640	752	1720	798	388	797	328
28	2680	2910	1940	e1330	1140	644	548	1360	791	419	1190	405
29	2450	2400	1640	e1380	---	666	639	1440	569	774	490	381
30	2650	2500	1810	e1280	---	536	387	932	633	e210	343	606
31	2500	---	1530	e1470	---	690	---	1000	---	e200	349	---
TOTAL	69405	78130	63950	45930	35758	32996	20812	27304	19160	22530	19454	13933
MEAN	2239	2604	2063	1482	1277	1064	694	881	639	727	528	464
MAX	2910	2940	2920	2040	1670	2080	1350	1720	994	1040	1190	793
MIN	280	2380	1470	1270	899	536	172	330	246	200	310	317
AC-FT	137700	155000	126800	91100	70930	65450	41280	54160	38000	44690	38590	27640

CAL YR 1986 TOTAL 1000930 MEAN 2742 MAX 4710 MIN 280 AC-FT 1985000
WTR YR 1987 TOTAL 449362 MEAN 1231 MAX 2940 MIN 172 AC-FT 891300

e Estimated

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: May 1986 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: Maximum daily mean, 679 mg/L, June 10, 1987; minimum daily mean, 8 mg/L, Apr. 9, 14, 1987.
SEDIMENT LOADS: Maximum daily, 3,300 tons, Oct. 7, 1987; minimum daily, 3.7 tons, Apr. 9, 1987.

EXTREMES FOR CURRENT YEAR:
SEDIMENT CONCENTRATIONS: Maximum daily mean, 679 mg/L, June 10; minimum daily mean, 8 mg/L, Apr. 9, 14.
SEDIMENT LOADS: Maximum daily, 3,300 tons, Oct. 7; minimum daily, 3.7 tons, Apr. 9.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	e350	1616	162	1130	86	608	e39	177	e66	255	e87	254
2	e220	567	134	897	66	456	e86	399	e60	233	e93	261
3	e136	257	127	902	55	434	e85	399	e63	242	e92	283
4	e141	114	116	817	84	394	e80	320	e81	359	e116	273
5	e156	118	135	973	89	596	e83	457	e63	255	e105	400
6	484	3140	134	919	104	696	e80	333	e47	162	e65	190
7	493	3300	115	845	95	731	e85	330	e51	165	e92	365
8	383	2310	120	807	94	594	e87	397	e53	209	e118	360
9	372	2630	123	870	108	674	e83	347	e61	244	e130	730
10	310	1670	124	857	85	624	e66	257	e59	212	e153	653
11	e271	2080	78	564	61	359	e57	208	e69	252	205	863
12	e288	2060	127	864	78	396	e57	212	e50	190	195	727
13	e328	1890	108	776	e63	250	e61	209	e59	249	e141	404
14	e206	1610	91	617	e52	219	e59	218	e56	253	e99	329
15	e304	1750	91	686	e60	292	e68	285	e51	187	e86	216
16	e231	1810	89	618	e54	290	e70	302	e65	254	e81	269
17	e260	1540	92	643	e48	248	e72	330	e60	177	e52	156
18	e256	1990	97	678	e46	251	e74	280	e74	180	e61	118
19	e290	1660	99	727	e50	266	e66	267	e72	237	e72	220
20	e331	2310	86	594	e52	226	e66	267	e68	193	e74	165
21	e251	1940	79	546	e48	268	e63	225	e68	179	e72	214
22	e317	1930	67	532	e46	217	e63	228	e67	170	e58	121
23	e247	1670	81	521	e47	250	e76	281	e58	156	e57	135
24	299	2280	102	757	e51	238	e83	300	e74	244	e52	161
25	194	1380	122	817	e42	198	e68	237	e68	213	e47	129
26	185	1240	74	515	e49	265	e70	305	e60	157	e47	107
27	178	1250	78	550	e54	264	e75	288	e86	260	e35	60
28	153	1110	57	448	e70	367	e83	298	e86	265	e38	66
29	202	1340	77	499	e49	217	e73	272	---	---	e31	56
30	188	1200	[illegible]	580	e37	181	e83	287	---	---	e26	38
31	160	1080	---	---	e40	165	e81	321	---	---	e34	63
TOTAL	---	50016	---	21529	---	11234	---	9036	---	6152	---	8386

e Estimated

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	e40	98	e20	18	80	215	315	885	94	221	e76	90
2	e61	137	e24	40	74	176	148	377	108	276	e85	102
3	e64	169	e27	28	62	146	108	236	52	47	e106	156
4	e29	63	e24	33	66	136	118	292	50	42	e75	102
5	e24	48	e22	33	80	156	167	382	78	69	e77	150
6	e42	112	e31	33	69	101	158	419	78	104	e53	54
7	e32	80	e43	81	68	95	107	266	90	145	e49	58
8	e15	44	e36	32	57	62	117	205	81	109	e59	88
9	e8	3.7	e31	45	291	266	126	318	40	52	e50	74
10	e34	124	e36	40	679	647	e145	278	49	57	e64	86
11	e13	18	e46	80	138	92	e119	208	38	52	e63	82
12	e9	9.7	76	144	e93	103	e96	151	e80	111	e69	101
13	e22	61	108	248	e79	143	e99	145	e66	122	e64	57
14	e8	12	e31	59	e74	105	103	220	e45	54	e68	68
15	e16	21	e57	144	e75	161	117	260	e68	119	e72	124
16	e32	76	e31	43	e70	73	95	234	e86	159	e69	68
17	37	65	e48	108	112	168	110	286	e94	163	56	61
18	27	26	e63	165	93	126	108	239	e99	187	34	37
19	26	26	e76	293	88	152	97	209	e106	235	47	47
20	30	72	e69	158	108	218	76	107	e77	168	e32	27
21	18	37	e52	192	124	255	96	203	e78	217	e42	43
22	20	32	e58	160	110	163	106	201	e68	111	e43	45
23	21	35	e56	200	102	208	126	347	e48	86	e44	50
24	10	14	e70	285	109	268	99	167	e69	156	e40	44
25	22	36	e56	166	104	236	104	207	e76	172	e41	59
26	21	28	e64	252	96	178	85	119	e81	162	e44	53
27	22	45	e79	367	101	218	62	65	e86	185	e31	27
28	e14	21	e89	327	104	222	66	75	e110	353	e39	43
29	e19	33	e89	346	101	155	83	173	e50	66	e39	40
30	e18	19	e63	159	272	465	30	17	e39	36	e43	70
31	---	---	e61	165	---	---	66	36	e50	47	---	---
TOTAL	---	1565.4	---	4432	---	5709	---	7327	---	4055	---	2106
YEAR		132427.4										

e Estimated

10099000 HIGH CREEK NEAR RICHMOND, UT

LOCATION.--Lat 41°58'40", long 111°44'55", in SW¼SW¼SE¼ sec.5, T.14 N., R.2 E., Cache County, Cache National Forest, Hydrologic Unit 16010202, on right bank near forest boundary, 2 mi downstream from North Fork, and 5 mi northeast of Richmond.

DRAINAGE AREA.--16.2 mi².

PERIOD OF RECORD.--April to September 1944, April to September 1945 (monthly discharge only, published in WSP 1314), April 1946 to September 1952, February 1971 to September 1972, October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,250 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--16 years (1946-52, 1972, 1979-87), 35.3 ft³/s, 25,570 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 702 ft³/s June 1, 1986, gage height, 3.58 ft; maximum gage height, 3.67 ft Feb. 1-15, 1972, backwater from ice; minimum observed, 2.5 ft³/s Jan. 5, 1950, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and [illegible]um (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 28	2200	*76	*2.08				

Minimum daily discharge, 5.7 ft³/s Feb. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	11	e8.1	5.9	7.1	7.1	68	57	20	11	8.5
2	13	13	11	e8.0	5.7	7.3	7.7	61	54	20	12	8.5
3	13	13	11	e8.1	5.9	7.9	9.9	53	51	19	9.7	8.9
4	13	13	11	e8.4	5.9	8.6	13	48	49	18	9.6	9.6
5	12	13	11	e8.6	5.9	10	16	46	48	19	9.4	8.8
6	12	13	11	e8.3	6.1	12	19	48	47	18	9.4	8.5
7	12	13	12	e7.8	6.1	14	21	49	46	17	10	8.3
8	13	13	12	e7.6	6.1	16	23	51	45	17	9.3	7.9
9	13	13	e8.5	e7.6	6.4	16	23	53	44	17	8.2	7.9
10	13	13	e7.8	e6.7	6.4	15	21	53	41	16	8.1	7.8
11	14	13	e8.1	e6.8	6.6	15	22	53	40	16	7.7	7.7
12	14	13	e8.9	e6.9	6.9	13	20	52	38	15	7.7	7.7
13	13	13	e9.2	e7.1	7.8	13	19	52	37	15	8.3	7.7
14	13	13	e8.4	7.3	9.8	12	18	52	36	15	8.9	7.7
15	13	13	e8.5	7.1	9.1	12	21	53	35	15	9.5	7.7
16	13	13	e9.0	7.2	9.1	12	28	53	34	15	9.0	7.4
17	12	12	e8.5	e6.6	8.9	11	33	53	32	15	8.8	7.4
18	12	12	e8.0	e6.5	8.5	11	38	54	31	14	8.8	7.4
19	13	12	e8.3	6.9	8.5	11	38	61	30	14	8.7	7.4
20	14	12	e8.4	6.6	8.4	11	32	e67	29	13	8.5	7.4
21	14	12	e8.1	6.6	e8.1	10	29	e69	28	16	8.5	7.4
22	14	11	e7.9	6.5	8.3	9.9	29	e69	27	15	8.7	7.4
23	14	11	e8.0	6.4	8.2	9.7	35	e65	25	14	9.1	7.4
24	14	11	e8.4	6.4	8.0	9.5	41	61	25	13	10	7.3
25	13	11	e8.5	6.4	7.9	9.2	46	57	24	13	9.8	7.1
26	13	10	e8.4	6.3	e7.7	9.1	52	55	23	12	9.6	7.1
27	13	11	e8.4	6.0	e7.3	9.0	60	54	22	12	9.3	6.9
28	13	11	e8.5	6.4	7.2	8.8	68	56	22	13	9.0	6.9
29	12	11	e8.6	6.0	---	8.1	71	60	22	12	8.8	6.9
30	13	11	e8.2	5.9	---	7.5	69	e64	21	12	8.5	6.8
31	13	---	e8.1	5.9	---	7.2	---	60	---	12	8.5	---
TOTAL	404	366	262.7	217.0	205.7	332.9	929.7	1750	1063	472	282.4	231.4
MEAN	13.0	12.2	9.12	7.00	7.38	10.7	31.0	56.5	35.4	15.2	9.11	7.71
MAX	14	13	12	8.6	9.8	16	71	69	57	20	12	9.6
MIN	12	10	7.8	5.9	5.7	7.1	7.1	46	21	12	7.7	6.8
AC-FT	801	726	561	430	410	660	1840	3470	2110	936	560	459

CAL YR 1986 TOTAL 18383.8 MEAN 50.4 MAX 474 MIN 7.8 AC-FT 36460
WTR YR 1987 TOTAL 6537.8 MEAN 17.9 MAX 71 MIN 5.7 AC-FT 12970

e Estimated

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT

LOCATION.--Lat 41°30'43", long 111°48'37", in SW¼SW¼SW¼ sec.14, T.9 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.65 mi downstream from Davenport Creek and 1.5 mi south of Avon.

DRAINAGE AREA.--61.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1960 to current year. Published as "10105700 South Fork Little Bear River near Avon," 1960-62.

REVISED RECORDS.--WRG UT-74-1: Drainage area. WDR UT-82-1: 1980-81 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft from topographic map. Prior to Oct. 1, 1985 at datum 2.0 ft lower. Oct. 1, 1985 to Mar. 2, 1987 at datum 1.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions for irrigation above station.

AVERAGE DISCHARGE.--27 years, 62.1 ft^3/s, 44,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,540 ft^3/s Feb. 19, 1986, gage height, 5.58 ft; minimum, 6.3 ft^3/s Feb. 3, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft^3/s Apr. 7, gage height, 2.14 ft; minimum discharge, 19 ft^3/s Sept. 6-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	46	40	35	36	35	52	120	67	33	26	22
2	54	46	41	37	36	36	65	117	64	33	25	21
3	52	46	41	36	38	38	81	100	60	32	25	22
4	50	46	41	37	37	45	104	91	58	31	25	25
5	49	46	41	37	36	53	112	88	55	30	24	22
6	49	47	42	36	35	71	124	88	54	30	24	21
7	48	47	42	32	35	78	123	91	53	29	23	21
8	48	47	41	30	35	74	113	91	52	29	22	21
9	47	47	36	e33	35	86	101	91	52	29	22	20
10	47	46	30	e34	39	71	97	89	51	31	22	20
11	46	45	34	e35	43	69	95	87	48	31	22	20
12	46	47	36	e36	44	62	81	86	47	29	21	20
13	45	47	38	e36	51	68	75	83	45	29	22	20
14	45	47	39	e36	57	68	74	80	44	28	25	21
15	44	47	39	e36	43	60	75	79	43	28	32	22
16	44	47	39	e35	41	64	80	80	43	28	27	23
17	45	48	37	e35	39	63	88	79	42	29	25	23
18	45	49	37	e35	39	60	95	87	41	29	25	23
19	48	55	38	e35	38	56	99	84	41	28	24	23
20	50	50	37	e36	37	52	93	89	40	27	24	23
21	47	52	36	e37	35	50	83	99	38	39	24	23
22	47	51	35	e37	36	50	77	99	39	32	25	22
23	45	48	37	e36	37	48	82	90	38	28	24	22
24	47	47	36	e36	37	47	93	88	37	27	26	22
25	47	47	35	e35	36	46	102	88	36	26	24	23
26	47	44	35	e36	35	46	111	102	35	26	24	23
27	46	43	36	37	35	45	113	104	34	27	23	23
28	46	43	35	53	35	44	118	86	34	27	23	24
29	46	43	33	42	---	43	123	78	35	28	23	23
30	47	42	34	38	---	42	122	74	35	27	22	23
31	47	---	32	36	---	44	---	70	---	26	22	---
TOTAL	1466	1406	1153	1125	1080	1714	2851	2778	1361	906	745	661
MEAN	47.3	46.9	37.2	36.3	38.6	55.3	95.0	89.6	45.4	29.2	24.0	22.0
MAX	54	55	42	53	57	86	124	120	67	39	32	25
MIN	44	42	30	30	35	35	52	70	34	26	21	20
AC-FT	2910	2790	2290	2230	2140	3400	5650	5510	2700	1800	1480	1310

CAL YR 1986 TOTAL 43701 MEAN 120 MAX 924 MIN 30 AC-FT 86680
WTR YR 1987 TOTAL 17246 MEAN 47.2 MAX 124 MIN 20 AC-FT 34210

e Estimated

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK NEAR AVON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1986 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 784 mg/L, June 2, 1986; minimum daily mean, 3 mg/L, Aug. 18, 1987.
SEDIMENT LOADS: Maximum daily mean, 876 tons, June 2, 1986; minimum daily mean, 0.20 ton, Aug. 18, 1987.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 545 mg/L, Mar. 6; minimum daily mean, 3 mg/L, Aug. 18.
SEDIMENT LOADS: Maximum daily, 104 tons, Mar. 6; minimum daily, 0.20 ton, Aug. 18.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)	MEAN CONCENTRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	84	9.0	28	3.5	35	3.8	35	3.3	89	8.7	70	6.8
2	59	8.6	23	2.9	40	4.4	34	3.4	67	6.5	72	7.0
3	55	7.7	29	3.6	35	3.9	32	3.1	65	6.7	73	7.5
4	48	6.5	29	3.6	43	4.8	28	2.8	60	6.0	142	17
5	50	6.6	24	3.0	40	4.3	26	2.6	60	5.8	260	37
6	49	6.5	28	3.6	40	4.5	23	2.2	60	5.7	545	104
7	45	5.8	35	4.4	34	3.9	19	1.6	58	5.5	338	71
8	50	6.5	30	3.8	26	2.8	[illegible]	1.3	65	6.1	142	28
9	35	4.4	25	3.2	46	4.5	15	1.3	70	6.6	114	26
10	29	3.7	27	3.4	50	4.0	19	1.7	72	7.6	142	27
11	24	3.0	25	3.0	44	4.0	29	2.7	69	8.0	105	20
12	27	3.4	23	2.9	25	2.4	30	2.9	61	7.2	70	12
13	32	[illegible]	20	2.5	22	2.3	29	2.8	64	8.8	68	12
14	31	3.8	34	4.3	23	2.4	34	3.3	73	11	58	11
15	23	2.7	40	5.1	23	2.4	41	4.0	85	7.5	29	4.7
16	20	2.4	31	3.9	25	2.6	42	4.0	56	6.2	38	6.6
17	25	3.2	17	2.2	24	2.4	43	4.1	68	7.2	54	9.2
18	32	3.9	28	3.7	23	2.3	44	4.2	70	7.4	37	6.0
19	81	10	40	5.9	23	2.4	44	4.2	62	6.4	24	3.8
20	58	7.8	33	4.5	24	2.4	44	4.3	64	6.4	19	2.7
21	31	3.9	40	5.6	24	2.3	43	4.3	83	7.8	28	3.8
22	22	2.8	37	5.1	23	2.2	43	4.3	72	7.0	31	4.2
23	18	2.2	18	2.3	19	1.9	47	4.6	52	5.2	32	4.1
24	37	4.7	19	2.4	21	2.0	58	5.6	48	4.8	30	3.8
25	47	6.0	24	3.0	29	2.7	70	6.6	48	4.7	26	3.2
26	25	3.2	28	3.3	42	4.0	62	6.0	55	5.5	36	4.5
27	29	3.6	32	3.7	38	3.7	50	5.0	72	6.8	37	4.5
28	53	6.8	27	3.1	38	3.6	71	10	77	7.3	36	4.3
29	35	4.3	41	4.0	38	3.4	73	8.3	---	---	41	4.8
30	24	3.0	48	5.4	35	3.2	60	6.2	---	---	35	4.0
31	20	2.5	---	---	34	2.9	64	6.2	---	---	29	3.4
TOTAL	---	152.2	---	111.7	---	98.5	---	126.9	---	190.4	---	463.5

e Estimated.

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK NEAR AVON, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	46	6.5	70	23	30	5.4	8	.71	14	.98	16	.96
2	77	14	67	21	38	6.2	7	.62	8	.54	15	.85
3	209	46	48	13	31	5.0	7	.60	10	.67	13	.77
4	254	71	48	12	36	5.6	7	.59	12	.81	10	.67
5	213	64	38	9.0	37	5.5	6	.49	11	.71	12	.71
6	150	50	37	8.8	48	7.0	7	.67	11	.71	11	.62
7	117	39	38	9.3	57	8.2	7	.66	11	.68	13	.74
8	117	36	36	8.8	50	7.0	10	.78	9	.53	9	.51
9	66	18	34	8.4	62	8.7	9	.70	9	.53	5	.27
10	66	17	32	7.7	50	6.9	8	.67	7	.42	7	.38
11	56	14	32	7.5	51	6.8	11	.92	7	.42	4	.22
12	34	7.4	31	7.2	41	5.2	12	.94	9	.51	4	.22
13	38	7.7	28	6.3	42	5.1	16	1.3	8	.48	5	.27
14	29	5.8	27	5.8	27	3.2	16	1.2	9	.61	4	.23
15	32	6.5	25	5.3	42	4.9	18	1.4	21	1.8	4	.24
16	39	8.4	26	5.6	45	5.2	19	1.4	8	.58	8	.50
17	65	15	27	5.8	50	5.7	22	1.7	4	.27	9	.56
18	74	19	46	11	42	4.6	32	2.5	3	.20	6	.37
19	59	16	34	7.7	31	3.4	30	2.3	5	.32	4	.25
20	49	12	34	8.2	32	3.5	30	2.2	5	.32	10	.62
21	39	8.7	85	23	37	3.8	59	6.2	10	.65	14	.87
22	31	6.4	35	9.4	47	4.9	40	3.5	10	.67	8	.48
23	43	9.5	23	5.6	44	4.5	26	2.0	15	.97	12	.71
24	75	19	30	7.1	20	2.0	12	.87	16	1.1	15	.89
25	103	28	40	[illegible]	32	3.1	15	1.1	20	1.3	11	.68
26	127	38	46	13	19	1.8	20	1.4	19	1.2	11	.68
27	110	36	56	16	11	1.0	20	1.5	25	1.6	10	.62
28	126	40	39	9.1	12	1.1	10	.73	15	.93	10	.65
29	115	38	28	5.9	16	1.5	9	.68	9	.58	10	.62
30	88	29	27	5.4	13	1.2	8	.58	16	.95	10	.62
31	---	---	27	5.1	---	---	17	1.2	22	1.3	---	---
TOTAL	---	725.9	---	300.5	---	138.6	---	41.90	---	23.32	---	16.77
YEAR		2390.19										

e Estimated.

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

LOCATION.--Lat 41°44'35", long 111°45'40", in NE¼NW¼NE¼ sec.31, T.12 N., R.2 E., Cache County, Hydrologic Unit 16010203, Cache National Forest, on left bank 407 ft downstream from head and 3.8 mi east of Logan.

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder and 8-ft concrete Parshall flume. Datum of gage is 4,858.69 ft NGVD of 1929 (Bureau of Public Roads bench mark).

REMARKS.--Records good except for daily discharges less than 0.10 ft^3/s, which are poor.

AVERAGE DISCHARGE.--24 years, 23.6 ft^3/s, 17,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 111 ft^3/s May 23, 1963, May 28, 1966; no flow at times most years.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	.20	.02	.00	.07	.07	.00	56	25	42	35	29
2	.73	.20	.02	.00	.07	.07	.00	46	42	39	35	29
3	.61	.20	.02	.00	.07	.07	.00	40	39	40	35	29
4	.61	.20	.02	.00	.07	.07	.00	40	40	41	35	26
5	.60	.11	.02	.00	.07	.04	.00	40	52	42	35	25
6	.49	.07	.02	.00	.07	.02	.00	50	56	38	35	25
7	.44	.07	.02	.00	.02	.02	.00	57	51	41	35	25
8	.38	.07	.02	.00	.02	.02	.00	56	51	43	34	25
9	.38	.07	.00	.00	.02	.02	.00	64	54	43	34	25
10	.41	.07	.00	.00	.02	.02	.00	71	55	43	34	25
11	.39	.07	.00	.00	.02	.02	3.9	73	55	23	34	25
12	.38	.09	.00	.00	.04	.00	5.9	72	55	21	34	25
13	.38	.13	.00	.00	.07	.00	7.1	72	53	39	34	25
14	.38	.09	.00	.00	.09	.00	17	72	55	39	34	26
15	.38	.07	.00	.00	.07	.00	19	72	56	40	35	26
16	.38	.10	.00	.00	.07	.00	25	72	57	40	35	26
17	.38	.10	.00	.00	.07	.00	20	70	56	40	35	27
18	.38	.07	.00	.00	.07	.00	32	54	53	40	35	27
19	.21	.07	.00	.00	.07	.00	31	44	51	40	35	27
20	.13	.07	.00	.02	.07	.00	11	40	51	39	34	27
21	.13	.07	.00	.03	.07	.00	.47	22	51	40	34	27
22	.13	.07	.00	.07	.07	.00	25	17	50	39	34	27
23	.13	.07	.00	.07	.07	.00	37	20	52	39	32	26
24	.13	.07	.00	.07	.07	.00	36	20	50	39	30	26
25	.13	.07	.00	.07	.07	.00	35	20	50	39	30	26
26	.13	.07	.00	.07	.07	.00	46	9.4	53	39	29	26
27	.13	.07	.00	.07	.07	.00	51	2.6	47	39	29	27
28	.13	.07	.00	.07	.07	.00	54	2.1	43	39	29	27
29	.13	.05	.00	.07	---	.00	59	2.0	43	39	29	26
30	.17	.02	.00	.07	---	.00	62	1.8	43	35	29	26
31	.20	---	.00	.07	---	.00	---	5.6	---	35	28	---
TOTAL	10.45	2.75	.16	.75	1.70	.44	577.37	1283.5	1489	1195	1025	788
MEAN	.34	.09	.01	.02	.06	.01	19.2	41.4	49.6	38.5	33.1	26.3
MAX	.87	.20	.02	.07	.09	.07	62	73	57	43	35	29
MIN	.13	.02	.00	.00	.02	.00	.00	1.8	25	21	28	25
AC-FT	21	5.5	.3	1.5	3.4	.9	1150	2550	2950	2370	2030	1560

CAL YR 1986	TOTAL	6983.72	MEAN	19.2	MAX	73	MIN	.00	AC-FT	13850
WTR YR 1987	TOTAL	6374.12	MEAN	17.5	MAX	73	MIN	.00	AC-FT	12640

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT

LOCATION.--Lat 41°44'40", long 111°47'00", in NE¼ sec.36, T.12 N., R.1 E., Cache County, Hydrologic Unit 16010203, on right bank 0.5 mi upstream from State dam, and 2.5 mi east of Logan.

DRAINAGE AREA.--214 mi^2.

PERIOD OF RECORD.--June 1896 to current year. Published as Logan River near Logan prior to 1913. Records since May 1913 equivalent to earlier records if records for Utah Power & Light Co.'s tailrace near Logan (station 10108000) are added. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,680 ft from topographic map. Prior to May 7, 1913, nonrecording gage at various sites within 0.5 mi downstream at different datums. May 7, 1913, to Sept. 3, 1938, water-stage recorder at present site at different datums.

REMARKS.--No estimated daily discharges. Records good. Flow affected by regulation and diversions above station for power, irrigation, and municipal culinary supply. Utah Power and Light Co. stopped diverting water from river November 1970 at which time the tailrace station (station 10108000) was discontinued. During 1963, site for gaging station for Logan, Hyde Park and Smithfield Canal (station 10108400) was relocated. Records for combined flow since that time are equivalent to previous records. For record of combined flow, see following page.

AVERAGE DISCHARGE.--River only: 74 years (water years 1914-87), 143 ft^3/s, 103,600 acre-ft/yr.
Combined river and canal: 90 years, 277 ft^3/s, 200,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 2,000 ft^3/s Mar. 21, 1916, gage height, 5.6 ft; minimum, 5.2 ft^3/s Feb. 26, 1986, result of hydro-electric plant testing.
Combined river and canal: Maximum discharge observed, 2,480 ft^3/s May 24, 1907; minimum daily, 50 ft^3/s Jan. 21, 1935.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 473 ft^3/s Apr. 29, gage height, 3.59 ft; minimum, 8.7 ft^3/s Aug. 4, result of hydro-electric plant testing.
Combined river and canal: Maximum daily discharge, 394 ft^3/s May 1; minimum daily, 115 ft^3/s Mar. 30-Apr. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	215	197	158	148	136	115	330	267	153	122	99
2	267	211	192	163	148	129	123	329	244	151	119	92
3	263	207	186	158	147	141	133	291	230	147	117	103
4	252	212	191	161	148	135	145	272	229	145	112	108
5	245	215	191	164	145	141	162	265	217	145	117	107
6	241	215	192	162	146	145	174	259	212	143	116	106
7	238	212	183	154	149	152	168	268	219	135	113	105
8	232	215	188	143	155	153	171	275	218	134	112	104
9	231	210	187	146	145	152	174	276	212	135	114	103
10	233	209	173	144	141	152	167	275	205	135	114	104
11	233	205	167	144	142	149	164	272	200	161	114	103
12	229	203	174	143	143	142	167	268	194	159	113	102
13	226	207	176	137	143	142	146	265	188	134	113	101
14	224	208	177	137	148	144	141	263	186	133	112	101
15	226	207	178	150	146	144	151	259	183	130	124	100
16	225	208	174	145	143	142	169	257	182	126	116	96
17	223	209	172	141	139	140	197	262	176	125	111	93
18	223	208	170	145	137	140	213	289	170	127	108	93
19	225	216	168	148	140	138	233	317	173	128	110	93
20	234	217	170	145	141	143	224	317	172	128	110	94
21	219	212	171	143	140	130	212	328	171	132	109	96
22	225	211	169	144	140	127	189	317	165	136	108	96
23	231	208	168	148	143	127	212	300	157	126	109	96
24	222	205	166	149	142	128	243	289	158	124	110	95
25	222	205	167	152	142	130	279	283	158	122	115	94
26	220	201	165	151	140	123	288	299	143	119	113	96
27	219	198	163	152	140	123	291	307	154	119	113	93
28	219	201	166	154	137	120	316	305	156	118	113	93
29	209	198	161	153	---	118	334	300	155	122	110	93
30	216	198	159	150	---	115	313	294	155	128	108	92
31	218	---	157	150	---	115	---	287	---	124	103	---
TOTAL	7153	6246	5418	4634	4018	4216	6014	8926	5657	4144	3497	2951
MEAN	231	208	175	149	143	136	200	288	189	134	113	98.4
MAX	267	217	197	164	155	153	334	330	267	161	124	108
MIN	209	198	157	137	137	115	115	257	143	118	103	92
AC-FT	14190	12390	10750	9190	7970	8360	11930	17700	11220	8220	6940	5850

CAL YR 1986 TOTAL 166109 MEAN 455 MAX 1870 MIN 104 AC-FT 329500
WTR YR 1987 TOTAL 62874 MEAN 172 MAX 338 MIN 92 AC-FT 124700

LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF LOGAN RIVER ABOVE STATE DAM AND LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT

WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	215	197	158	148	136	115	394	292	195	157	128
2	268	211	192	163	148	129	123	375	286	190	154	121
3	264	207	188	158	147	141	133	331	277	187	152	132
4	253	212	191	161	148	135	145	312	269	186	147	134
5	246	215	191	164	145	141	162	305	269	187	152	132
6	241	215	192	162	146	145	174	309	268	181	151	131
7	238	212	183	154	149	152	168	325	270	176	148	130
8	232	215	188	143	155	153	171	331	269	177	146	129
9	231	210	187	146	145	152	174	340	266	178	148	128
10	233	209	173	144	141	152	167	346	260	178	148	129
11	233	205	167	144	142	149	168	345	255	184	148	128
12	229	203	174	143	143	142	173	340	249	180	147	127
13	226	207	176	137	143	142	153	337	241	173	147	126
14	224	208	177	137	148	144	158	335	241	172	146	127
15	226	207	178	156	146	144	170	331	239	170	159	126
16	225	208	174	145	143	142	194	329	239	166	151	122
17	223	209	172	141	139	140	217	332	232	165	146	120
18	223	208	170	145	137	140	245	343	223	167	143	120
19	225	216	168	148	140	138	264	361	224	168	145	120
20	234	217	170	145	141	143	235	357	223	167	144	121
21	219	212	171	143	140	130	212	350	222	172	142	123
22	225	211	169	144	140	127	214	334	215	175	142	123
23	231	208	168	148	143	127	249	320	209	165	141	122
24	222	205	166	149	142	128	279	309	208	163	140	121
25	222	205	167	152	142	130	314	303	208	161	145	120
26	220	201	165	151	140	123	334	308	196	158	142	122
27	219	198	163	152	140	123	342	310	201	158	142	120
28	219	201	166	154	137	120	370	307	199	157	142	120
29	209	198	161	153	---	118	393	302	198	161	139	119
30	216	198	159	150	---	115	375	296	198	163	137	118
31	218	---	157	150	---	115	---	293	---	159	131	---
TOTAL	7158	6246	5418	4634	4018	4216	6591	10210	7146	5339	4522	3739
MEAN	231	208	175	149	143	136	220	329	238	172	146	125
MAX	268	217	197	164	155	153	393	394	292	195	159	134
MIN	209	198	157	137	137	115	115	293	196	157	131	118
AC-FT	14200	12390	10750	9190	7970	8360	13070	20250	14170	10590	8970	7420

CAL YR 1986 TOTAL 172776 MEAN 473 MAX 1930 MIN 104 AC-FT 342700
WTR YR 1987 TOTAL 69237 MEAN 190 MAX 394 MIN 115 AC-FT 137300

10111700 BLACKSMITH FORK BELOW MILL CREEK, NEAR HYRUM, UT

LOCATION.--Lat 41°35'40", long 111°30'00", in NW¼NW¼NE¼ sec.23, T.10 N., R.3 E., Cache County, Hydrologic Unit 16010203, on right bank 1.3 mi downstream from Mill Creek, and 16 mi east of Hyrum.

DRAINAGE AREA.--83 mi^2.

PERIOD OF RECORD.--September 1965 to September 1969, October 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,544.76 ft NGVD of 1929, unadjusted.

REMARKS.--No estimated daily discharges. Records good. No diversions or regulation above gage.

AVERAGE DISCHARGE.--6 years, 71.1 ft^3/s, 51,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 346 ft^3/s Mar. 8, 1986, gage height, 7.11 ft; minimum, 42 ft^3/s Feb. 20, 1967, Mar. 14, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 112 ft^3/s, Oct. 1, gage height, 6.24 ft; minimum daily discharge, 52 ft^3/s, several days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	89	84	78	74	66	66	66	62	60	58	53
2	104	90	84	79	74	66	68	66	62	60	58	53
3	102	90	83	78	74	67	71	64	62	60	58	53
4	100	89	82	78	73	69	73	63	62	60	57	54
5	99	89	83	78	73	69	74	62	61	60	57	54
6	98	89	83	77	74	71	74	62	61	60	57	54
7	98	89	83	77	73	71	73	63	62	60	57	54
8	97	90	82	77	73	70	71	64	62	61	57	54
9	96	89	81	77	74	70	70	63	62	61	57	54
10	96	89	81	77	75	69	70	63	62	62	56	54
11	95	88	81	77	74	69	72	62	61	62	56	54
12	95	88	82	77	73	68	70	62	61	61	56	54
13	95	88	81	77	72	70	68	62	61	61	56	52
14	94	88	81	78	72	69	68	62	61	60	57	53
15	93	88	81	79	71	68	71	61	61	60	59	53
16	92	88	81	77	70	70	75	62	61	60	56	53
17	92	87	81	77	69	69	77	62	60	61	56	53
18	92	87	81	77	69	69	77	64	60	60	56	53
19	94	88	81	77	68	66	74	62	60	60	56	53
20	94	87	80	77	68	67	69	62	60	60	56	53
21	92	88	80	77	67	66	66	65	60	64	56	53
22	92	87	80	75	67	65	66	62	60	62	55	52
23	91	86	80	75	69	65	66	62	61	60	55	52
24	90	85	80	76	67	64	66	62	60	60	56	52
25	90	85	80	77	66	64	66	63	60	60	55	53
26	90	85	79	76	65	64	66	64	60	60	54	52
27	89	84	79	75	65	64	65	67	60	60	54	52
28	89	84	78	75	65	63	66	64	60	60	54	52
29	89	84	79	75	---	63	65	64	60	60	54	52
30	89	84	78	75	---	63	65	63	61	59	54	52
31	89	---	79	75	---	63	---	63	---	59	53	---
TOTAL	2920	2622	2508	2380	1974	2079	2088	1956	1826	1873	1736	1590
MEAN	94.2	87.4	80.9	76.8	70.5	67.1	69.6	63.1	60.9	60.4	56.0	53.0
MAX	104	90	84	79	75	71	77	67	62	64	59	54
MIN	89	84	78	75	65	63	65	61	60	59	53	52
AC-FT	5790	5200	4970	4720	3920	4120	4140	3880	3620	3720	3440	3150

CAL YR 1986 TOTAL 38011 MEAN 104 MAX 240 MIN 62 AC-FT 75390
WTR YR 1987 TOTAL 25552 MEAN 70.0 MAX 104 MIN 52 AC-FT 50680

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT

LOCATION (REVISED).--Lat 41°37'25", long 111°45'48", in SE¼NE¼NE¼ sec.8, T.10 N., R.2 E., Cache County, Hydrologic Unit 16010203 on right bank 1.1 mi upstream from diversion dam, and 6 mi east of Hyrum.

DRAINAGE AREA.--260 mi^2.

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for October 1913, published in WSP 1314.

REVISED RECORDS.--WSP 1514: 1925. WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5,020.00 ft above NGVD of 1929, from topographic map. Oct. 2, 1934 to May 27, 1987 at site 1,200 ft downstream at different datum. Prior to Oct. 2, 1934, at site 200 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. A few small diversions for irrigation of about 200 acres above station. Flow is slightly regulated by powerplant above station.

AVERAGE DISCHARGE.--74 years, 134 ft^3/s, 97,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft^3/s May 14, 1984, gage height, 7.12 ft, site and datum then in use; minimum, 4.7 ft^3/s Nov. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	0035	*179	3.69	May 21	1100	171	*3.78

Minimum, 51 ft^3/s Aug. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	152	139	128	120	112	118	142	e127	102	94	89
2	174	151	143	130	118	113	122	145	e127	101	98	89
3	172	150	134	129	120	115	127	142	e126	100	95	89
4	169	151	137	128	118	118	132	140	e126	100	94	91
5	168	150	138	130	117	120	139	138	e124	100	93	89
6	165	149	138	127	118	124	152	137	e123	99	89	89
7	167	149	137	126	117	125	153	136	e120	99	91	89
8	167	151	136	123	117	125	156	138	e118	99	90	88
9	170	150	134	120	117	125	149	138	e119	99	90	88
10	167	148	132	119	117	122	138	139	e119	100	90	88
11	164	145	132	119	119	122	150	137	e116	100	90	88
12	163	138	133	119	120	120	143	135	e113	98	90	89
13	169	145	134	119	119	124	137	135	e114	98	89	88
14	172	143	134	119	121	124	138	134	e112	99	90	88
15	169	143	133	121	116	121	150	133	e110	98	98	88
16	164	144	133	119	115	126	159	134	108	98	91	88
17	162	144	132	117	115	126	161	135	107	100	89	88
18	159	144	131	117	115	126	157	138	105	99	88	86
19	159	146	131	116	117	124	152	134	107	98	93	88
20	163	144	131	116	115	121	145	131	106	99	91	88
21	159	147	129	113	114	119	138	137	105	106	91	88
22	159	145	129	112	114	119	138	125	105	105	91	93
23	158	143	130	115	114	118	138	125	104	101	90	89
24	157	142	130	120	114	117	138	121	105	99	91	89
25	156	142	130	121	114	116	139	121	104	98	92	90
26	155	141	129	121	112	117	139	126	103	98	90	90
27	154	142	130	121	112	117	138	132	103	99	89	89
28	154	140	128	122	110	117	137	132	103	100	89	90
29	152	140	128	121	---	116	139	e130	103	99	89	90
30	153	139	128	120	---	115	135	e129	103	98	89	90
31	153	---	127	121	---	116	---	e128	---	98	89	---
TOTAL	5045	4358	4110	3749	3255	3720	4256	4147	3365	3087	2823	2666
MEAN	163	145	133	121	116	120	142	134	112	99.6	91.1	88.9
MAX	174	152	143	130	121	126	161	145	127	106	98	93
MIN	152	138	127	112	110	112	118	121	103	98	88	86
AC-FT	10010	8640	8150	7440	6460	7380	8440	8230	6670	6120	5600	5290

CAL YR 1986 TOTAL 100150 MEAN 274 MAX 765 MIN 103 AC-FT 198600
WTR YR 1987 TOTAL 44581 MEAN 122 MAX 174 MIN 86 AC-FT 88430

e Estimated

10116500 CUTLER RESERVOIR NEAR COLLINSTON, ID

LOCATION.--Lat 41°50'13", long 112°02'51", in NW¼NW¼SW¼ sec.26, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, 2 mi north of Beaver Dam, 6 mi north of Collinston.

DRAINAGE AREA.--6,267 mi^2, approximately.

PERIOD OF RECORD.--October 1927 to current year.

COOPERATION.--Records provided by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 18,060 acre-ft Apr. 17, elevation, 4,404.75 ft; minimum, 1,200 acre-ft Oct. 5, elevation, 4,400.80 ft.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9500	4010	15420	13990	14340	12960	11960	12290	14340	8940	13860	11640
2	4010	4010	14700	13990	13650	14340	12620	12620	14340	8940	14840	11310
3	1970	4010	15420	13650	15060	12960	13300	11640	13650	9500	15780	12290
4	4520	4010	14700	15780	15060	14700	13300	10080	13650	10080	15420	12960
5	1200	4010	16150	14700	16900	13650	13990	10380	14700	10810	14200	13300
6	2530	4010	15780	15420	15060	13650	16150	10680	14700	11440	12960	14340
7	2530	4010	15420	15420	15780	13650	12620	10080	13300	12620	12620	14700
8	2530	3850	15420	14340	13650	15420	12290	10080	13990	13440	12620	15060
9	3550	4010	15420	12620	14700	13990	14340	8940	13990	13860	12290	15060
10	3260	3850	15420	12620	13300	15780	12290	9050	12960	15420	11960	14700
11	4180	3920	15420	14340	14700	16150	15420	8510	12960	15560	11640	14700
12	3400	4010	15780	14700	13650	14700	13990	8780	12960	16300	11000	15060
13	4340	4010	15420	13300	15420	14700	11960	8940	12290	16900	10680	16150
14	4520	4010	13990	13650	15060	13300	11310	9220	12290	16150	10680	14700
15	4520	4010	13300	13300	15780	15060	11640	9780	12620	16150	11310	15060
16	4870	4010	14700	13990	15060	11960	11000	10080	12620	15780	12290	15780
17	4520	4010	13300	14340	13650	13300	18060	11000	11310	15780	13300	14700
18	4180	4010	10380	15060	13990	13990	14340	13650	10560	15780	14340	14700
19	3850	4010	15420	13650	11640	13650	14700	16900	9670	16150	14700	15060
20	3700	4340	15780	14340	14700	12620	13300	17670	9380	16520	15780	15420
21	3550	4180	15060	14340	14700	12620	12960	14700	9100	16150	15420	15420
22	3550	4010	14340	11960	15420	12960	12960	14340	8940	15780	15780	15060
23	3550	4080	13650	13300	14340	12960	13650	14340	8670	16150	14340	15420
24	3550	4180	12960	13300	13650	11640	12290	14340	8780	16150	13650	14700
25	4340	4010	12620	13990	14340	13650	10680	15780	9160	15420	14700	15420
26	4340	4340	11960	11310	14700	13990	10080	13300	9730	15060	15060	16150
27	4340	11000	13300	12960	14700	13650	9220	13990	9730	14700	16150	16150
28	4340	13300	11960	14340	15060	11640	11310	15060	9730	14270	14700	16520
29	4010	14340	13300	14340	---	13650	11000	15780	9500	14130	14340	14340
30	4010	15780	14340	14700	---	13650	13300	15060	9160	14840	14340	12620
31	4010	---	15060	14340	---	11640	---	14340	---	14270	13650	---
MAX	9500	15780	16150	15780	16900	16150	18060	17670	14700	16900	16150	16520
MIN	1200	3850	10380	11310	11640	11640	9220	8510	8670	8940	10680	11310
(#)	4402.25	4404.45	4404.35	4404.25	4404.35	4403.85	4404.10	4404.25	4403.44	4404.24	4404.15	4404.00
(*)	-8610	+11770	-720	-720	+720	-3420	+1660	+1040	-5180	+5110	-620	-1030

WTR YR 1987 . . . . . (*) 0

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10117000 HAMMOND (EAST SIDE) CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'51", long 112°03'24", in SE¼ sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 3,600 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Prior to 1915, published as Hammond Ditch near Collingston. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from east side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--73 years (water years 1913-81, 1983-87), 50.9 ft^3/s, 36,880 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 184 ft^3/s June 29, 1963, May 2, 1977; no flow at times in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	55	.00	.00	.00	.00	.00	161	41	141	116	103
2	64	52	.00	.00	.00	.00	.00	166	50	139	116	102
3	64	9.2	.00	.00	.00	.00	.00	161	62	136	116	99
4	62	.00	.00	.00	.00	.00	.00	151	70	135	115	100
5	61	.00	.00	.00	.00	.00	.00	150	81	135	116	96
6	59	.00	.00	.00	.00	.00	.00	149	83	136	118	91
7	57	.00	.00	.00	.00	.00	.00	150	82	136	120	92
8	57	.00	.00	.00	.00	.00	.00	155	95	136	120	92
9	57	.00	.00	.00	.00	.00	.00	155	110	136	121	92
10	58	.00	.00	.00	.00	.00	.00	153	110	135	120	92
11	59	.00	.00	.00	.00	.00	.00	151	115	133	118	92
12	62	.00	.00	.00	.00	.00	.00	157	125	132	118	92
13	64	.00	.00	.00	.00	.00	.00	160	127	132	118	93
14	58	.00	.00	.00	.00	.00	.00	160	131	130	115	91
15	54	.00	.00	.00	.00	.00	.00	160	141	125	110	85
16	54	.00	.00	.00	.00	.00	.00	159	150	124	107	83
17	53	.00	.00	.00	.00	.00	99	140	162	119	107	85
18	53	.00	.00	.00	.00	.00	105	127	162	122	108	86
19	53	.00	.00	.00	.00	.00	44	109	158	124	108	84
20	56	.00	.00	.00	.00	.00	93	84	159	123	106	85
21	56	.00	.00	.00	.00	.00	121	69	159	118	105	85
22	56	.00	.00	.00	.00	.00	131	69	159	104	106	86
23	55	.00	.00	.00	.00	.00	134	70	160	104	105	86
24	55	.00	.00	.00	.00	.00	140	65	152	103	101	86
25	55	.00	.00	.00	.00	.00	150	67	150	99	97	86
26	53	.00	.00	.00	.00	.00	156	67	147	100	97	87
27	53	.00	.00	.00	.00	.00	156	69	145	102	100	85
28	54	.00	.00	.00	.00	.00	156	64	144	107	99	84
29	54	.00	.00	.00	---	.00	157	49	145	110	100	86
30	53	.00	.00	.00	---	.00	159	45	147	111	101	87
31	56	---	.00	.00	---	.00	---	40	---	114	100	---
TOTAL	1769	116.20	.00	.00	.00	.00	1801.00	3632	3722	3801	3404	2693
MEAN	57.1	3.87	.00	.00	.00	.00	60.0	117	124	123	110	89.8
MAX	64	55	.00	.00	.00	.00	159	166	162	141	121	103
MIN	53	.00	.00	.00	.00	.00	.00	40	41	99	97	83
AC-FT	3510	230	.0	.0	.0	.0	3570	7200	7380	7540	6750	5340

CAL YR 1986 TOTAL 18625.20 MEAN 51.0 MAX 162 MIN .00 AC-FT 36940
WTR YR 1987 TOTAL 20938.20 MEAN 57.4 MAX 166 MIN .00 AC-FT 41530

10117500 WEST SIDE CANAL NEAR COLLINSTON, UT

LOCATION.--Lat 41°49'55", 112°03'36", in SW¼ sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on left bank 4,200 ft downstream from Cutler Dam and 4 mi north of Collinston.

PERIOD OF RECORD.--June 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Prior to May 22, 1914, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Canal diverts from west side of Bear River at Cutler Dam for irrigation of about 58,000 acres below station in eastern Box Elder County.

COOPERATION.--Records collected by Utah Power & Light Co.

AVERAGE DISCHARGE.--73 years (water years 1913-81, 1983-87), 248 ft^3/s, 179,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 787 ft^3/s June 23, 1986; no flow for periods in every year except 1914.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	190	39	.00	.00	.00	.00	750	225	728	628	620
2	328	196	38	.00	.00	.00	.00	758	184	729	630	625
3	328	197	36	.00	.00	.00	.00	757	184	732	632	636
4	325	198	13	.00	.00	.00	.00	759	294	728	627	619
5	324	199	.00	.00	.00	.00	.00	743	376	716	627	598
6	323	200	.00	.00	.00	.00	.00	724	374	703	621	598
7	319	201	.00	.00	.00	.00	.00	711	370	706	619	580
8	317	203	.00	.00	.00	.00	.00	713	428	700	632	551
9	320	204	.00	.00	.00	.00	.00	721	475	698	648	539
10	275	202	.00	.00	.00	.00	.00	716	539	674	648	540
11	230	197	.00	.00	.00	.00	.00	712	606	652	649	541
12	235	192	.00	.00	.00	.00	.00	717	675	651	653	541
13	239	156	.00	.00	.00	.00	.00	714	729	650	657	540
14	234	97	.00	.00	.00	.00	.00	712	747	649	661	538
15	236	93	.00	.00	.00	.00	.00	707	746	647	609	539
16	237	90	.00	.00	.00	.00	.00	669	745	649	601	527
17	236	80	.00	.00	.00	.00	.00	562	752	651	621	497
18	236	52	.00	.00	.00	.00	.00	533	754	652	624	507
19	235	33	.00	.00	.00	.00	.00	520	753	653	624	528
20	237	26	.00	.00	.00	.00	.00	356	754	664	632	546
21	236	25	.00	.00	.00	.00	.00	310	752	597	645	547
22	239	24	.00	.00	.00	.00	.00	322	752	517	645	540
23	239	23	.00	.00	.00	.00	606	321	752	512	642	522
24	239	22	.00	.00	.00	.00	655	328	752	537	563	529
25	242	79	.00	.00	.00	.00	700	333	751	558	538	536
26	244	68	.00	.00	.00	.00	736	335	757	556	601	535
27	247	49	.00	.00	.00	.00	733	247	756	573	588	537
28	246	46	.00	.00	.00	.00	731	193	760	597	599	535
29	246	43	.00	.00	---	.00	740	185	762	590	621	525
30	247	41	.00	.00	---	.00	741	184	745	608	621	508
31	224	---	.00	.00	---	.00	---	184	---	626	619	---
TOTAL	8189	3426	126.00	.00	.00	.00	5642.00	16496	18239	19893	19313	16524
MEAN	264	114	4.06	.00	.00	.00	188	532	608	642	623	551
MAX	328	204	39	.00	.00	.00	741	759	762	732	661	636
MIN	224	22	.00	.00	.00	.00	.00	184	184	512	538	497
AC-FT	16240	6800	250	.0	.0	.0	11190	32720	36180	39460	38310	32780

CAL YR 1986 TOTAL 96447.00 MEAN 264 MAX 787 MIN .00 AC-FT 191300
WTR YR 1987 TOTAL 107848.00 MEAN 295 MAX 762 MIN .00 AC-FT 213900

10118000 BEAR RIVER NEAR COLLINSTON, UT

LOCATION.--Lat 41°50'03", long 112°03'16", in NW¼SE¼ sec.27, T.13 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 800 ft downstream from Cutler plant of Utah Power & Light Co., 2,000 ft downstream from Cutler Dam, and 5.5 mi north of Collinston.

DRAINAGE AREA.--6,267 mi^2.

PERIOD OF RECORD.--July 1889 to current year. Published as "at Collinston" prior to 1900. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,276.13 ft NGVD of 1929 (levels by Bureau of Reclamation). Prior to Nov. 8, 1913, nonrecording gage, and Nov. 8, 1913 to Sept. 10, 1938, water-stage recorder, at site 0.8 mi downstream at different datums.

REMARKS.--No estimated daily discharges. Records fair. Natural flow of stream affected by storage reservoir, power developments, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records provided by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft^3/s Feb. 20, 1986, gage height, 8.68 ft; minimum daily, 10 ft^3/s Aug. 4-12, 18-23, 1905; practically no flow at 2400 Aug. 5, 1920.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,810 ft^3/s Dec. 3, gage height, 4.63 ft; minimum daily, 25 ft^3/s, many days during May - September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3680	3340	3280	2580	2270	2130	1610	657	2240	25	25	295
2	3470	3340	3380	2340	2250	1890	1260	25	1570	25	25	25
3	2550	3340	2960	2650	2300	1900	1580	855	1690	25	74	25
4	1600	3370	3400	2050	2510	1760	2020	701	1480	25	153	25
5	1700	3360	3360	2860	2740	1790	1660	157	908	25	136	25
6	1220	3400	3440	2390	2800	2370	1970	25	891	25	119	25
7	1880	3440	3420	2820	1940	1740	1750	273	1180	25	100	25
8	2640	3420	3380	2200	2620	2240	1380	267	397	25	82	377
9	2940	3460	3360	1870	1960	2830	2250	63	547	25	67	552
10	2870	3420	3330	1490	2450	2100	1680	25	674	104	55	146
11	3210	3370	3200	1500	2100	2910	1180	25	25	25	43	214
12	3080	3320	3120	1660	2340	2780	2270	27	49	25	30	25
13	3090	3350	3110	1600	2080	2340	1840	25	303	183	25	25
14	3230	3410	2720	1570	2870	1990	1610	25	25	240	25	450
15	3180	3410	2670	1780	3030	2350	1530	25	25	367	25	192
16	3260	3410	1860	1680	3110	1950	1050	25	211	337	25	796
17	3290	3400	3040	1540	2810	1620	1310	25	25	285	25	264
18	3340	3470	2980	1940	2100	2280	1060	25	25	279	25	25
19	3330	3460	1060	2340	2490	2150	1620	636	25	279	25	25
20	3360	3560	2890	1880	1910	2150	965	1900	25	446	472	25
21	3320	3560	2890	2050	2070	1350	1130	2420	25	422	375	295
22	3250	3520	2820	2280	1860	1800	941	2600	25	604	726	25
23	3360	3490	2600	2000	1810	1830	387	1850	25	763	772	25
24	3180	3500	2870	1840	1620	1700	1480	1700	25	810	25	331
25	3180	3440	2480	1920	2270	1860	148	1840	25	804	426	25
26	3290	3290	2840	2200	2070	1840	763	2390	25	524	136	25
27	3400	1800	2310	2100	1780	1900	576	2040	25	453	1010	25
28	3390	3140	2830	2090	1770	1920	160	2820	25	25	661	682
29	3340	3160	2320	2310	---	706	496	2850	25	25	709	620
30	3340	3200	2240	2090	---	1470	146	2840	25	25	25	509
31	3310	---	2430	2560	---	1570	---	1930	---	25	531	---
TOTAL	93280	100150	88590	64180	63930	61216	37812	31066	12565	7275	6952	6123
MEAN	3009	3338	2858	2070	2283	1975	1260	1002	419	235	224	204
MAX	3680	3560	3440	2860	3110	2910	2270	2850	2240	810	1010	796
MIN	1220	1800	1060	1490	1620	706	146	25	25	25	25	25
AC-FT	185000	198600	175700	127300	126800	121400	75000	61620	24920	14430	13790	12140

CAL YR 1986 TOTAL 1567550 MEAN 4295 MAX 12000 MIN 1060 AC-FT 3109000
WTR YR 1987 TOTAL 573139 MEAN 1570 MAX 3680 MIN 25 AC-FT 1137000

10118000 BEAR RIVER NEAR COLLINSTON, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1986 to September 1987.

EXTREMES FOR CURRENT YEAR:
SEDIMENT CONCENTRATIONS: Maximum daily mean, 210 mg/L, July 23; minimum daily mean, 10 mg/L, Jan. 1.
SEDIMENT LOADS: Maximum daily, 1,250 tons, Oct. 11; minimum daily, 2.0 tons, June 15.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	e95	944	e30	271	e20	177	e10	70	e63	386	e53	305
2	e112	1050	e63	568	e19	173	e15	95	e55	334	e58	296
3	e111	764	e60	541	e25	200	e25	179	e50	310	e73	374
4	e68	294	e60	546	e25	229	e38	210	e52	352	e68	323
5	e48	220	e48	417	e27	245	e58	448	e56	414	e76	367
6	e55	181	e48	441	e38	353	e62	400	e61	461	e66	422
7	e64	325	e68	632	e32	295	e31	484	e59	309	e63	296
8	e130	927	e52	480	e36	329	e56	333	e55	389	e78	472
9	e142	1130	e39	364	e32	290	e64	273	e37	196	e78	596
10	e155	1200	e65	600	e29	261	e47	189	e45	298	e80	454
11	e144	1250	e44	400	e35	302	e53	215	e36	204	e84	660
12	e126	1050	e30	269	e30	253	e50	224	e37	234	e67	503
13	e110	918	e27	244	e37	311	e53	229	e59	281	e54	341
14	e94	820	e20	184	e37	272	e45	191	e48	372	e46	247
15	e82	704	e18	147	e37	267	e43	207	e45	360	e46	292
16	e88	775	e13	120	e28	141	e40	181	e54	453	e39	205
17	e87	773	e18	165	e20	164	e35	146	e63	478	e32	140
18	e74	667	e22	206	e35	282	e45	236	e52	295	e58	357
19	e87	782	e34	318	e34	97	e55	347	e55	370	e70	406
20	e83	753	e25	240	e27	211	e60	305	e38	196	e63	366
21	e68	610	e22	211	e22	172	e49	271	e44	246	e59	215
22	e70	614	e24	220	e18	137	e50	308	e48	241	e70	340
23	e54	490	e22	207	e18	126	e47	254	e60	293	e86	425
24	e115	987	e28	265	e17	132	e57	283	e51	223	e93	427
25	e87	747	e24	223	e26	174	e54	280	e63	386	e98	492
26	e51	453	e21	187	e31	238	e43	255	e62	347	e77	383
27	e49	450	e20	97	e25	156	e46	261	e57	274	e84	431
28	e47	430	e21	178	e15	115	e45	254	e62	298	e80	415
29	e48	433	e15	128	e15	94	e42	262	---	---	e76	145
30	e42	379	e15	130	e20	121	e45	254	---	---	e83	329
31	e55	492	---	---	e23	151	e57	394	---	---	e82	348
TOTAL	---	21612	---	9007	---	6468	---	8018	---	9006	---	11372

e Estimated.

10118000 BEAR RIVER NEAR COLLINSTON, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	e85	369	132	234	152	919	e87	5.9	89	6.0	105	84
2	e79	269	118	7.8	150	636	103	7.0	70	4.7	88	5.9
3	e74	316	109	252	147	671	92	6.2	72	14	97	8.5
4	e92	502	93	176	166	663	89	6.0	75	31	104	7.0
5	e106	475	77	33	122	299	95	6.4	75	28	94	6.3
6	e107	560	54	3.6	100	241	101	6.8	92	30	85	5.7
7	e122	576	77	57	124	395	84	5.7	97	26	e85	5.7
8	e117	436	122	88	78	44	78	5.3	95	21	e87	89
9	e108	656	78	13	e80	118	139	9.4	98	18	e88	131
10	e127	576	e52	3.5	e76	138	102	29	95	14	116	46
11	e125	398	51	3.4	68	4.6	e95	6.4	88	10	98	57
12	e140	858	57	4.2	61	8.1	e98	6.6	95	7.7	99	6.7
13	e135	871	85	4.4	51	42	e105	52	91	6.1	96	6.5
14	e127	552	73	4.9	32	2.2	111	72	97	8.5	116	141
15	e132	545	68	4.6	30	2.0	136	135	107	7.2	116	60
16	e105	298	59	4.0	34	19	134	122	100	6.7	124	267
17	e116	410	71	4.8	71	4.8	183	141	95	6.4	109	78
18	e133	381	79	5.3	86	5.8	145	109	87	5.9	88	5.9
19	e134	586	87	149	76	5.1	129	97	85	5.7	79	5.3
20	e135	352	101	518	76	5.1	170	205	103	[illegible]	85	5.7
21	114	348	86	562	76	5.1	180	205	112	113	86	68
22	103	262	85	597	88	5.9	135	220	115	225	77	5.2
23	108	113	94	470	78	5.3	210	433	106	221	75	5.1
24	95	380	e96	441	80	5.4	164	359	89	6.0	98	88
25	88	35	e92	457	83	5.6	164	356	81	93	74	5.0
26	121	246	e90	581	139	9.4	143	202	111	41	82	5.5
27	85	132	e105	578	82	5.5	104	127	150	409	e75	5.1
28	e96	41	113	860	86	5.8	95	6.4	141	252	e95	175
29	104	139	125	962	e77	5.2	88	5.9	123	235	e86	144
30	97	38	130	997	e76	5.1	91	6.1	82	5.5	e89	122
31	---	---	121	631	---	---	81	5.5	113	162	---	---
TOTAL	---	11529	---	8706.5	---	4321.0	---	2959.6	---	2148.4	---	1643.1

TOTAL LOAD FOR YEAR: 96790.1 TONS.

e Estimated.

10126000 BEAR RIVER NEAR CORINNE, UT

LOCATION.--Lat 41°34'35", long 112°06'00", in NE¼SE¼NE¼ sec.30, T.10 N., R.2 W., Box Elder County, Hydrologic Unit 16010204, on right bank 1.2 mi downstream from Salt Creek, 2.0 mi northeast of Corinne, and 2.8 mi downstream from Malad River.

DRAINAGE AREA.--7,029 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to September 1957, October 1963 to current year.

REVISED RECORDS.--WRD UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,204.6 ft, unadjusted. Auxiliary nonrecording gage 7,800 ft downstream July 27, 1950 to Nov. 21, 1955.

REMARKS.--Records poor. Natural flow of stream affected by upstream reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--32 years, 2,019 ft^3/s, 1,463,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,770 ft^3/s May 19, 1984, gage height, 17.50 ft; minimum daily, 72 ft^3/s Aug. 20, 21, 26, Sept. 8, 1964, July 5, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,940 ft^3/s Oct. 1; minimum daily discharge, 250 ft^3/s May 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3940	3470	3440	2570	e2700	2160	1440	e540	2240	434	664	579
2	3870	3490	3520	2230	2420	1480	1340	e460	2210	405	679	538
3	3640	3520	3490	2470	2180	2150	1300	e600	2050	456	690	560
4	2580	3510	3370	2270	2410	1500	1630	e900	1980	456	704	568
5	2610	3520	3540	2370	2670	1850	1330	e700	1420	396	731	634
6	2200	3520	3570	2510	2900	2040	1620	e250	1600	554	746	644
7	2190	3570	3590	2550	2450	2210	1480	e350	1500	501	780	653
8	2640	3630	3560	e2600	2280	1690	1570	e440	1140	494	783	660
9	3020	3620	3530	e2100	1970	2480	1120	e390	1060	534	824	645
10	3210	3640	3530	e1700	2280	2250	1630	e330	1020	606	909	668
11	3120	3610	3450	e1700	2060	2540	1170	e290	1090	522	915	677
12	3330	3570	3520	e1800	2170	2680	1260	e270	810	533	927	680
13	3260	3530	3510	e1950	2000	2470	1530	e260	865	507	957	686
14	3350	3550	3540	e2100	2630	2380	1430	e250	889	480	e900	705
15	3420	3590	3090	e2000	2830	2030	1340	316	959	492	e880	719
16	3380	3590	2280	e1900	2950	2310	1340	546	860	543	e860	666
17	3460	3600	2340	e1800	2950	1940	1120	441	832	653	e840	750
18	3470	3590	3200	e2150	2310	1950	1340	728	792	670	e800	686
19	3510	3650	2330	e2500	2350	2030	1110	830	764	552	e780	650
20	3540	3610	1940	e2400	1880	2110	1400	1570	763	584	776	647
21	3550	3720	2740	e2200	1750	1990	1210	2570	773	637	763	644
22	3530	3680	2800	e2500	1770	1340	1180	2480	726	734	595	694
23	3490	3680	2700	e2150	1830	1740	e900	2430	734	598	812	650
24	3520	3670	2510	e2200	1780	1720	e800	2300	723	680	827	645
25	3410	3670	2760	e2400	1770	1590	1380	1960	703	768	644	730
26	3400	3500	2380	e2600	2000	1950	e900	2390	670	704	669	648
27	3490	3070	2350	e2400	2030	1670	e880	2650	619	769	636	581
28	3560	2920	2520	e2300	1680	1910	e600	2910	565	655	758	596
29	3530	3340	2380	e2300	---	1310	e460	2970	496	671	728	849
30	3520	3380	2130	e2400	---	902	e620	2910	454	643	676	864
31	3510	---	2130	e2550	---	1550	---	2760	---	693	616	---
TOTAL	102250	106090	91740	69670	63000	59922	36430	38881	31307	17929	23869	19916
MEAN	3298	3536	2959	2247	2250	1933	1214	1254	1044	578	770	664
MAX	3940	3720	3590	2600	2950	2680	1630	2970	2240	769	957	864
MIN	2190	2920	1940	1700	1680	902	460	250	454	396	595	538
AC-FT	202800	210400	182000	138200	125000	118900	72260	77120	62100	35560	47340	39500

CAL YR 1986 TOTAL 1654220 MEAN 4532 MAX 12000 MIN 1640 AC-FT 3281000
WTR YR 1987 TOTAL 661004 MEAN 1811 MAX 3940 MIN 250 AC-FT 1311000

e Estimated

10126000 BEAR RIVER NEAR CORINNE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: April 1976 to September 1981.
WATER TEMPERATURES: October 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,140 microsiemens July 5, 1979; minimum daily, 440 microsiemens May 25, 1978.
WATER TEMPERATURES: Maximum, 30.0°C July 27, 28, 1978; minimum, 0.0°C on many days during winter period each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1986											
03...	1115	3610	680	8.60	7.0	2.0	5.1	13.4	660	K8	K25
MAR , 1987											
26...	1230	2200	1090	8.30	8.0	7.5	52	10.0	650	31	220
JUN											
04...	1250	2270	1100	8.60	24.5	19.5	74	8.4	660	130	590
SEP											
02...	1150	522	1780	8.40	26.0	22.0	51	7.7	670	190	320

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD MG/L AS HCO3	CARBONATE WH WAT TOTAL FIELD MG/L AS CO3	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC , 1986											
03...	300	36	58	38	76	35	2	7.4	290	13	266
MAR , 1987											
26...	310	32	69	33	110	43	3	12	340	--	277
JUN											
04...	310	35	65	35	120	45	3	10	310	10	272
SEP											
02...	340	60	61	45	240	59	6	19	340	6	279

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
DEC , 1986										
03...	58	100	0.20	11	500	530	0.68	4870	0.590	0.010
MAR , 1987										
26...	53	160	0.30	14	612	620	0.83	3640	0.880	0.020
JUN										
04...	53	170	0.30	13	625	640	0.85	3840	0.410	0.030
SEP										
02...	75	400	0.40	18	991	1000	1.3	1400	--	--

K Results based on colony count outside acceptable range (non-ideal colony count).

10126000 BEAR RIVER NEAR CORINNE, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
DEC , 1985										
03...	0.600	0.030	0.030	0.04	0.97	1.0	0.010	0.010	0.020	0.06
MAR , 1987										
26...	0.900	0.160	0.120	0.15	0.54	0.70	0.170	0.070	0.060	0.18
JUN										
04...	0.440	0.030	0.020	0.03	0.57	0.60	0.180	0.060	0.030	0.09
SEP										
02...	--	[illegible]	--	--	--	--	--	--	--	--

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
DEC , 1986											
03...	1115	<10	4	73	<0.5	1	<1	<3	2	4	<5
MAR , 1987											
26...	1230	20	5	85	<0.5	<1	<1	<3	4	8	<5
JUN											
04...	1250	160	7	93	0.6	<1	3	<3	3	220	<5
SEP											
02...	1150	30	7	100	<0.5	<1	1	<3	2	44	<5

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
DEC , 1986										
03...	60	2	<0.1	<10	3	<1	<1	400	<6	5
MAR , 1987										
26...	83	6	<0.1	<10	3	<1	<1	490	<6	<3
JUN										
04...	85	17	<0.1	<10	<1	<1	<1	490	<6	11
SEP										
02...	140	4	0.2	<10	<1	<1	<1	750	<6	4

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
DEC , 1986						
03...	1115	3610	2.0	62	44	429
MAR , 1987						
26...	1230	2200	7.5	84	126	748
JUN						
04...	1250	2270	19.5	98	228	1400

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT

LOCATION.--Lat 40°47'09", long 111°06'42", in NW¼NW¼NW¼ sec.36, T.1 N., R.7 E., Summit County, Hydrologic Unit 16020101, on right bank 2.5 mi upstream from mouth and 10 mi northeast of Oakley.

DRAINAGE AREA.--33.8 mi^2.

PERIOD OF RECORD.--October 1946 to September 1947, October 1975 to September 1987 (discontinued).

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,360 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--13 years, 61.7 ft^3/s, 44,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 885 ft^3/s June 4, 1986, gage height, 5.52 ft; minimum, 6.8 ft^3/s Jan. 3, Apr. 21, Sept. 22, 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 328 ft^3/s May 17, gage height, 4.57 ft; minimum, 7.1 ft^3/s Sept. 19, 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	25	19	e16	e15	e15	16	195	135	29	18	16
2	28	23	19	e17	e15	e15	17	179	126	27	18	16
3	28	24	19	e16	e16	e14	20	148	131	26	18	15
4	27	23	19	e17	e15	e14	22	138	136	25	17	18
5	26	23	19	e16	e15	e14	24	152	135	24	17	16
6	27	23	19	e16	e14	15	24	175	144	23	16	15
7	29	22	18	e15	e14	15	24	193	167	22	17	14
8	30	19	18	e14	e14	15	29	197	155	21	16	15
9	30	23	18	e15	e15	15	28	189	128	21	16	14
10	30	23	e16	e16	e16	14	27	191	116	21	16	14
11	30	21	e16	16	e16	15	29	194	104	22	16	14
12	25	21	e16	e16	e15	15	26	207	96	19	15	13
13	25	21	e17	15	e15	15	24	238	89	19	15	13
14	24	21	e17	e15	e15	15	27	235	82	18	23	13
15	24	20	e17	e15	e14	15	37	255	77	18	24	14
16	24	20	e18	e14	e15	15	50	279	70	17	20	14
17	24	20	e17	e14	e15	15	66	283	62	19	17	14
18	27	20	e16	e15	e14	14	86	275	56	19	16	11
19	29	22	e17	e14	e14	15	81	261	52	17	16	8.8
20	27	21	e16	e14	e14	14	66	213	49	17	15	9.9
21	26	22	e15	e14	e14	e13	61	179	45	34	16	9.8
22	26	21	e15	e15	e14	e15	69	149	42	44	21	9.4
23	27	21	e16	15	e14	14	100	128	40	26	18	9.5
24	27	21	e15	e14	e15	14	129	117	37	21	28	9.6
25	27	21	e16	e14	e14	14	145	112	36	21	23	9.8
26	26	19	16	e14	e15	13	147	e111	34	21	20	9.5
27	26	20	17	e15	e15	14	149	e104	33	21	18	7.5
28	28	20	17	e15	e15	14	178	e96	31	20	17	9.2
29	26	20	16	e14	---	14	194	e98	33	19	17	11
30	27	19	16	e14	---	e14	199	114	32	19	17	11
31	25	---	e15	e15	---	14	---	128	---	20	16	---
TOTAL	828	639	525	465	412	447	2094	5533	2473	690	557	374.0
MEAN	26.7	21.3	16.9	15.0	14.7	14.4	69.8	178	82.4	22.3	18.0	12.5
MAX	30	25	19	17	16	15	199	283	167	44	28	18
MIN	24	19	15	14	14	13	16	96	31	17	15	7.5
AC-FT	1640	1270	1040	922	817	887	4150	10970	4910	1370	1100	742

CAL YR 1986 TOTAL 34412.0 MEAN 94.3 MAX 747 MIN 15 AC-FT 68260
WTR YR 1987 TOTAL 15037.0 MEAN 41.2 MAX 283 MIN 7.5 AC-FT 29830

e Estimated

10128500 WEBER RIVER NEAR OAKLEY, UT

LOCATION (REVISED).--Lat 40°44'22", long 111°14'25", in SE¼NE¼NW¼ sec.14, T.1 S., R.6 E., Summit County, Hydrologic Unit 16020101, on right bank 1.2 mi downstream from South Fork, 2.5 mi upstream from Weber-Provo diversion canal, and 3.5 mi northeast of Oakley.

DRAINAGE AREA.--162 mi^2.

PERIOD OF RECORD.--October 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 790: 1934. WSP 1394: 1907-09, 1911-12, 1921-22. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft from topographic map. Prior to Oct. 25, 1933, staff gage at site 0.2 mi downstream at different datum. Oct. 25, 1933 to Aug. 29, 1955, water-stage recorder at present site at datum 0.5 ft higher. Aug. 29, 1955 to Oct. 27, 1981 at site 0.3 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Several small diversions for irrigation above station. Flow slightly regulated by several small lakes on headwaters and a small reservoir on Smith and Morehouse Creek. Total capacity of lakes and reservoir, 3,400 acre-ft.

AVERAGE DISCHARGE.--83 years, 223 ft^3/s, 161,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,170 ft^3/s June 13, 1921, gage height, 9.0 ft, site and datum then in use, from rating curve extended above 2,000 ft^3/s; minimum observed, 15 ft^3/s Dec. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 16	2400	*1,060	*7.06				

Minimum, 31 ft^3/s Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	109	80	66	62	60	66	537	415	150	93	65
2	126	105	83	72	63	59	72	515	398	142	91	65
3	128	109	85	66	62	59	79	417	413	136	88	63
4	121	102	83	74	62	60	85	376	435	134	84	70
5	118	98	84	70	59	62	84	390	448	128	80	66
6	118	100	84	69	61	65	100	449	453	124	79	64
7	118	94	81	60	61	67	103	505	492	110	76	63
8	119	91	73	53	61	67	106	539	483	112	75	63
9	124	98	76	65	61	68	109	526	419	108	74	63
10	128	102	61	69	61	65	113	549	387	106	73	62
11	127	98	66	79	61	67	122	557	354	112	75	63
12	115	103	75	84	62	67	117	601	336	106	73	62
13	113	101	78	76	61	73	108	702	315	101	70	62
14	117	102	79	67	62	70	123	733	299	99	93	63
15	113	96	77	66	61	69	151	776	282	98	97	64
16	118	92	86	71	65	69	188	890	264	97	93	64
17	112	94	73	77	62	69	231	905	239	105	81	63
18	117	94	68	72	62	70	277	867	221	110	76	60
19	127	108	84	80	59	69	263	814	209	100	74	57
20	129	94	77	72	58	69	226	658	198	100	73	57
21	122	94	71	77	64	67	206	573	201	142	73	56
22	124	93	64	71	60	72	227	496	192	166	88	56
23	119	94	78	73	63	69	292	445	184	120	77	55
24	116	97	70	71	60	70	350	415	174	104	102	55
25	114	97	64	69	59	67	401	395	161	101	98	56
26	112	84	67	66	60	66	398	390	157	107	90	55
27	107	85	80	66	58	67	406	365	148	107	82	54
28	114	88	70	66	61	66	457	344	144	104	75	54
29	106	89	64	63	---	66	517	341	156	102	72	56
30	106	86	65	65	---	67	544	343	168	98	70	67
31	109	---	58	64	---	64	---	360	---	100	70	---
TOTAL	3663	2897	2304	2159	1711	2065	6521	16773	8745	3537	2517	1823
MEAN	118	96.6	74.3	69.6	61.1	66.6	217	541	291	114	81.2	60.8
MAX	129	109	86	84	65	73	544	905	492	166	102	70
MIN	106	84	58	53	58	59	66	341	144	97	70	54
AC-FT	7270	5750	4570	4280	3390	4100	12930	33270	17350	7020	4990	3620

CAL YR 1986 TOTAL 136323 MEAN 373 MAX 2730 MIN 58 AC-FT 270400
WTR YR 1987 TOTAL 54715 MEAN 150 MAX 905 MIN 53 AC-FT 108500

10129400 ROCKPORT RESERVOIR NEAR WANSHIP, UT

LOCATION.--Lat 40°47'25", long 111°24'12", in NW¼NW¼SE¼ sec.29, T.1 N., R.5 E., Summit County, Hydrologic Unit 16020101, in powerhouse on downstream side of dam on Weber River, 1.2 mi south of Wanship and 1.2 mi upstream from Silver Creek.

DRAINAGE AREA.--334 mi^2.

PERIOD OF RECORD.--February 1957 to current year. Month-end contents only prior to October 1960, published in WSP 1734.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Mercury gage in powerhouse read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; storage began in fall of 1956; dam completed March 1957. Usable capacity, 60,860 acre-ft between elevation 5,930 ft (bottom of outlet tunnel) and 6,037 ft (top of spillway) above mean sea level. Dead storage, 1,260 acre-ft. Figures given herein represent usable contents. Water is used for irrigation, domestic, and industrial purposes.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 65,030 acre-ft June 24, 27, 28, 1967 and June 12, 13, 1983, elevation, 6,040.8 ft; minimum observed since storage began, 152 acre-ft Sept. 10, 15, 1959, elevation, 5,931.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 61,190 acre-ft June 6-10, 12, 13, elevation, 6,037.3 ft; minimum observed, 35,270 acre-ft Sept. 30, elevation, 6,009.5 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

6,009	34,870	6,025	48,720
6,010	35,660	6,030	53,000
6,015	39,760	6,035	58,730
6,020	44,110	6,038	61,940

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55820	54500	51420	47030	44290	41990	41120	46570	60650	58840	52110	43400
2	55820	54400	51320	46940	44200	41900	41120	47030	60860	58620	51810	43130
3	55820	54400	51230	47030	44110	41810	41120	47220	60970	58410	51620	42950
4	55820	54300	51130	46840	44020	41730	41290	47500	61080	58200	51320	42600
5	55820	54200	51030	46840	43930	41810	41290	47680	61080	57990	51030	42340
6	55820	54100	50930	46750	43840	41900	41380	47870	61080	57780	50740	42070
7	55920	54000	50740	46750	43750	41990	41380	48060	61080	57470	50450	41810
8	55720	53900	50640	46570	43660	41990	41460	48250	61190	57270	50060	41460
9	55720	53900	50540	46480	43570	41990	41550	48440	61190	56950	49770	41210
10	55720	53800	50350	46380	43480	41990	41550	48820	61190	56750	49580	40950
11	55620	53800	50060	46200	43400	41900	41460	49100	61080	56440	49200	40780
12	55510	53600	49870	46020	43400	41810	41380	49390	61190	56230	48910	40520
13	55510	53500	49680	45920	43310	41810	41290	49870	61190	56030	48630	40180
14	55410	53500	49480	45920	43310	41810	41290	50450	60970	55720	48250	39840
15	55410	53400	49290	45830	432[illegible]	41730	41380	51030	60970	55410	48060	39590
16	55210	53300	49200	45740	43220	41730	41550	51810	60860	55210	47780	39250
17	55110	53100	49010	45560	43130	41730	41730	52700	60750	54910	47500	38920
18	55110	53000	48820	45470	43040	41640	41990	53600	60750	54600	47220	38670
19	55110	52900	48720	45380	42950	41640	42340	54700	60650	54300	46940	38420
20	55110	52900	48530	45190	42950	41550	42600	55820	60540	54100	46570	38090
21	55110	52800	48340	45100	42950	41460	42860	56750	60430	54300	46290	37840
22	55110	52700	48250	45010	42860	41380	43040	57470	60220	54400	46020	37520
23	55110	52700	48060	44920	42690	41380	43220	57990	60110	54200	45830	37270
24	55110	52500	47870	44830	42600	41290	43480	58520	60000	54100	45560	37030
25	55010	52400	47680	44830	42510	41290	43930	58940	59900	53900	45280	36710
26	55010	52210	47590	44740	42420	41210	44470	59370	59680	53600	45010	36460
27	54910	52010	47500	44650	42250	41210	45010	59680	59580	53500	44830	36140
28	54800	51910	47400	44560	42070	41210	45380	60000	59370	53200	44560	35820
29	54700	51810	47310	44470	---	41120	45740	60220	59150	52900	44290	35500
30	54700	51620	47220	44380	---	41120	46110	60430	59050	52600	44020	35270
31	54600	---	47120	44380	---	41120	---	60540	---	52400	43750	---
MAX	55820	54500	51420	47030	44290	41990	46110	60540	61190	58840	52110	43400
MIN	54600	51620	47120	44380	42070	41120	41120	46570	59050	52400	43750	35270
(#)	6031.0	6028.0	6023.3	6020.3	6017.7	6016.6	6022.2	6036.7	6035.3	6028.8	6019.6	6009.5
(*)	-1320	-2980	-4500	-2740	-2310	-950	+4450	+14430	-1490	-6650	-8650	-8480

CAL YR 1986 . . . . . . (*) +8,530
WTR YR 1987 . . . . . . (*) -20,650

(#) Elevation, in feet, at end of month.
(*) Change in contents, in acre-feet.

10130500 WEBER RIVER NEAR COALVILLE, UT

LOCATION.--Lat 40°53'43", long 111°24'04", in NE¼SW¼NE¼ sec.20, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 1.2 mi upstream from high-water line of Echo Reservoir, 1.4 mi south of Coalville, 1.7 mi upstream from Chalk Creek, and 5.5 mi downstream from Silver Creek.

DRAINAGE AREA.--435 mi^2.

PERIOD OF RECORD.--April 1927 to current year.

REVISED RECORDS.--WSP 1314: 1943(M). WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,600 ft from topographic map. Prior to Mar. 22, 1931, nonrecording gage, Mar. 22, 1931 to July 18, 1967, water-stage recorder at same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Many diversions for irrigation above station. No diversion between station and Echo Reservoir. Records do not include water diverted from Weber River basin through Weber-Provo diversion canal. Flow regulated by several small reservoirs above station, and since Apr. 1, 1957, by Rockport Reservoir (see station 10129400).

AVERAGE DISCHARGE.--56 years, 216 ft^3/s, 156,500 acre-ft/yr, since completion of Weber-Provo diversion canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,190 ft^3/s May 6, 1952; maximum gage height, 5.00 ft (present datum) May 29, 1951; minimum, 6 ft^3/s Sept. 20, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 324 ft^3/s Oct. 1, gage height, 2.41 ft; minimum, 26 ft^3/s Apr. 30, May 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	299	232	220	165	176	182	163	48	195	176	194	210
2	265	230	220	167	175	183	180	110	217	170	192	211
3	260	229	220	165	175	184	188	104	237	177	191	208
4	257	227	220	170	177	188	191	96	242	176	190	190
5	252	228	219	170	176	194	177	87	237	176	198	221
6	243	229	222	167	177	208	180	76	240	181	192	216
7	244	231	220	169	176	244	179	76	255	188	192	218
8	247	235	220	167	176	249	173	76	279	185	189	217
9	245	235	220	e164	176	246	170	77	293	175	199	215
10	242	229	215	e160	177	230	165	76	300	178	197	217
11	243	230	216	e160	180	220	157	76	243	183	206	147
12	242	235	217	164	181	209	144	73	263	179	199	191
13	242	236	218	164	184	226	122	73	254	174	180	203
14	238	236	219	166	188	211	106	70	249	171	198	208
15	238	237	218	165	184	206	67	72	230	169	216	214
16	237	235	219	e160	183	190	71	67	227	175	204	215
17	236	233	218	e165	181	217	73	69	211	177	206	213
18	249	233	216	169	181	220	71	82	200	188	206	213
19	248	240	218	169	99	208	69	84	188	192	207	211
20	248	237	218	e164	175	195	60	94	197	195	206	212
21	245	234	217	e160	184	194	e57	94	196	192	213	213
22	239	233	215	e160	182	188	57	108	181	e150	218	217
23	239	231	217	166	182	165	56	113	186	188	190	215
24	238	229	193	166	182	163	52	112	175	212	209	214
25	235	230	167	171	183	163	49	112	187	211	231	213
26	234	227	167	172	183	164	47	159	177	214	219	215
27	233	225	167	172	183	162	43	213	180	221	221	215
28	233	222	166	177	182	154	39	210	157	217	221	215
29	233	222	166	174	---	152	33	219	170	203	216	210
30	232	222	166	175	---	151	30	212	173	206	209	210
31	235	---	164	174	---	151	---	198	---	199	203	---
TOTAL	7571	6932	6378	5177	4956	6017	3169	3336	6539	5798	6312	6285
MEAN	244	231	206	167	177	194	106	108	218	187	204	209
MAX	299	240	222	177	188	249	191	219	300	221	231	221
MIN	232	222	164	160	99	151	30	48	157	150	180	147
AC-FT	15020	13750	12650	10270	9830	11930	6290	6620	12970	11500	12520	12470

CAL YR 1986 TOTAL 174888 MEAN 479 MAX 1670 MIN 120 AC-FT 346900
WTR YR 1987 TOTAL 68472 MEAN 188 MAX 300 MIN 30 AC-FT 135800

e Estimated

10131000 CHALK CREEK AT COALVILLE, UT

LOCATION.--Lat 40°55'14", long 111°24'03", in NW¼NE¼SE¼ sec.8, T.2 N., R.5 E., Summit County, Hydrologic Unit 16020101, on left bank 100 ft downstream from bridge on U.S. Highway 189 in Coalville and 0.3 mi upstream from mouth.

DRAINAGE AREA.--250 mi^2.

PERIOD OF RECORD.--November 1904, March to November 1905, April 1927 to current year.

REVISED RECORDS.--WSP 1564: 1929. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5,560.6 ft NGVD of 1929. Prior to Feb. 13, 1931, nonrecording gage at site 100 ft upstream at different datum. Feb. 13, 1931 to Oct. 15, 1941, water-stage recorder at site 300 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Diversions above station used for irrigation of land in the drainage basin above the station. Flow slightly affected by Chalk Creek Reservoir, capacity, 1,600 acre-ft.

AVERAGE DISCHARGE.--60 years, 70.2 ft^3/s, 50,860 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,570 ft^3/s June 1, 198[illegible], gage height, 5.26 ft; minimum, less than 1.0 ft^3/s for several days in 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 2	0800	*201	*1.14				

Minimum discharge, 4.8 ft^3/s Dec. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	50	28	24	32	31	61	174	84	26	12	29
2	62	48	39	29	32	32	94	193	82	17	12	27
3	68	48	42	24	32	42	98	162	82	12	13	27
4	62	48	40	31	33	62	114	138	73	12	13	35
5	57	48	49	33	26	85	101	124	63	13	13	34
6	55	47	46	31	30	102	134	125	61	17	13	30
7	55	47	44	26	30	98	118	128	76	16	13	29
8	55	42	36	24	30	91	120	130	80	19	15	23
9	53	36	34	21	31	77	111	126	71	18	10	20
10	53	51	15	21	32	58	96	128	80	14	9.4	16
11	53	40	22	24	33	58	103	140	71	17	12	14
12	49	57	30	27	38	50	103	142	58	16	15	13
13	47	43	33	28	37	74	80	136	54	13	20	12
14	47	49	36	28	44	64	83	135	48	13	27	13
15	46	49	34	27	29	59	100	131	50	15	34	16
16	46	47	35	25	40	57	121	137	47	15	39	19
17	46	48	32	23	36	55	129	133	42	17	32	17
18	53	48	27	22	34	55	137	134	35	18	31	18
19	57	53	32	23	33	51	146	143	35	16	37	16
20	63	51	32	23	28	45	122	133	32	14	37	15
21	58	53	29	25	21	35	111	137	32	16	37	13
22	54	51	25	25	29	39	111	129	32	27	42	12
23	54	50	30	25	40	40	129	114	29	21	39	12
24	53	47	27	26	33	38	149	106	23	19	45	12
25	53	53	27	27	29	39	161	110	20	19	51	8.4
26	53	38	28	28	21	38	165	119	21	20	48	8.3
27	52	41	30	29	28	40	157	128	20	20	44	8.8
28	51	47	31	31	27	44	155	118	18	16	42	9.7
29	50	49	26	30	---	39	170	105	19	14	37	11
30	50	46	26	30	---	33	172	102	22	14	32	17
31	50	---	22	30	---	41	---	87	---	15	32	---
TOTAL	1662	1425	987	820	890	1672	3651	4047	1460	519	856.4	535.2
MEAN	53.6	47.5	31.8	26.5	31.8	53.9	122	131	48.7	16.7	27.6	17.8
MAX	68	57	49	33	44	102	172	193	84	27	51	35
MIN	46	36	15	21	21	31	61	87	18	12	9.4	8.3
AC-FT	3300	2830	1960	1630	1770	3320	7240	8030	2900	1030	1700	1060

CAL YR 1986 TOTAL 4074.0 MEAN 44.3 MAX 68 MIN 15 AC-FT 8080
WTR YR 1987 TOTAL 18524.6 MEAN 50.8 MAX 193 MIN 8.3 AC-FT 36740

10131500 ECHO RESERVOIR AT ECHO, UT

LOCATION.--Lat 40°57'50", long 111°25'55", in NE¼NW¼SW¼ sec.30, T.3 N., R.5 E., Summit County, Hydrologic Unit 16020101, near outlet works at left end of Echo Dam on Weber River, 1.1 mi southeast of Echo.

DRAINAGE AREA.--726 mi^2.

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Staff gage on left side of dam read once daily. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to 1932, elevations obtained from mercury gage in valve house and staff gage.

REMARKS.--Reservoir is formed by earthfill, rock-faced dam; storage began in October 1930; dam completed in 1931. Capacity, 73,940 acre-ft between elevation 5,450 ft (bottom of outlet tunnel) and 5,560 ft (top of radial gages in spillway) above mean sea level. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation of the Echo Project.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 75,420 acre-ft June 13, 1983, elevation, 5,561.0 ft; no contents Sept. 12 to Dec. 3, 1931, Sept. 24 to Nov. 2, 1934, Oct. 12 to Nov. 21, 1944, Oct. 1 to Nov. 15, 1954, Sept. 11-20, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 72,040 acre-ft May 5, elevation, 5,558.7 ft; minimum, 17,300 acre-ft Sept. 30, elevation, 5,508.4 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,508	17,010	5,525	31,180	5,545	53,360
5,510	18,480	5,530	36,100	5,550	59,880
5,515	22,390	5,535	41,440	5,555	66,740
5,520	26,620	5,540	47,200	5,559	72,470

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48040	50730	63540	62440	62720	63400	66180	70880	71310	58810	45780	29770
2	48160	51350	63400	62440	62860	63400	66180	71020	71460	58150	45310	29130
3	48400	51850	63130	62440	62860	63540	66320	71600	71310	57490	44500	28400
4	48650	52350	62860	62580	62860	63680	66460	71890	71310	56840	44040	27770
5	48770	52980	62720	62580	62860	63820	66600	72040	71020	56190	43460	27150
6	48770	53620	62580	62580	62860	63950	66740	71890	70730	55540	42670	26620
7	48890	54120	62310	62580	62860	64370	67020	71600	70440	54890	41770	26100
8	48890	54640	62040	62580	62860	64780	67020	71310	70150	54250	40880	25580
9	48890	55410	62040	62580	62860	65060	67160	71020	70150	53620	40120	24970
10	48890	55920	62040	62580	62860	65200	67300	70590	70150	52980	39360	24380
11	48890	56580	61760	62580	62860	65340	67300	70150	70150	52350	38500	23880
12	48280	57230	61630	62580	62860	65620	67300	69720	69870	51970	37760	23290
13	47440	57890	61490	62580	62860	65760	67300	69440	69580	51600	37130	22720
14	46610	58550	61360	62580	62990	65900	67300	69010	69290	51230	36410	22230
15	45780	59080	61220	62580	62990	66180	67160	68440	68720	50610	35900	21750
16	44960	59610	61490	62580	62990	66320	67160	67870	68150	49990	35490	21350
17	44150	60280	62040	62580	62990	66460	67300	67590	67590	49380	35080	20950
18	43350	60950	62580	62580	63130	66740	67730	67300	67020	49010	34580	20560
19	42550	61490	62720	62580	63130	66740	68150	67160	66320	48650	34080	20170
20	42900	62040	62720	62580	62860	66880	68580	67300	65620	48280	33590	19780
21	43690	62720	62580	62580	62860	66880	69010	67590	65060	48040	33100	19390
22	44500	63130	62580	62580	62860	66880	69290	68010	64510	47920	32620	19090
23	45190	63540	62580	62580	62860	66880	69580	68440	63950	47680	32320	18860
24	45900	63950	62580	62580	62860	66740	69720	68720	63400	47560	32040	18640
25	46490	63950	62580	62580	62990	66740	70150	68860	62860	47440	31840	18410
26	47080	63950	62580	62580	63130	66600	70440	69150	62310	47440	31750	18110
27	47680	63950	62580	62580	63130	66600	70730	69580	61630	47440	31650	17960
28	48280	63820	62580	62580	63270	66460	70880	70010	60820	47200	31560	17740
29	48890	63820	62440	62720	---	66460	70880	70440	60010	46960	31370	17520
30	49500	63820	62440	62720	---	66460	70880	70880	59340	46610	31080	17300
31	50110	---	62440	62720	---	66320	---	71160	---	46130	30420	---
MAX	50110	63950	63540	62720	63270	66880	70880	72040	71460	58810	45780	29770
MIN	42550	50730	61220	62440	62720	63400	66180	67160	59340	46130	30420	17300
(#)	5542.4	5552.9	5551.9	5552.1	5552.5	5554.7	5557.9	5558.1	5549.6	5539.1	5524.2	5508.4
(*)	+2310	+13710	-1380	+280	+550	+3050	+4560	+280	-11820	-13210	-15710	-13120

CAL YR 1986 . . . . (*) +4950
WTR YR 1987 . . . . (*) -30500

(#) Elevation, in feet, at end of month.
(*) Charge in contents, in acre-feet.

10132490 LOST CREEK RESERVOIR NEAR CROYDON, UT

LOCATION.--Lat 41°11'05", long 111°23'59", in NW¼SE¼NE¼ sec.8, T.5 N., R.5 E., Morgan County, Hydrologic Unit 16020101, 1.9 mi upstream from Hell Canyon and 8.1 mi northeast of Croydon.

DRAINAGE AREA.--123 mi^2.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Indicating float tape in gage house on top of dam. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earthfill rock-faced dam; active storage began Apr. 22, 1967. Active capacity, 20,010 acre-ft at elevation 6,005.0 ft above mean sea level. Dead storage, 2,500 acre-ft between elevation 5,835.0 ft (streambed at dam axis) and 5,912.3 ft (top of dead storage). Figures given herein represent active contents. Water is used for irrigation, fish and wildlife propagation along Lost Creek, and irrigation, municipal, and industrial use below confluence of Lost Creek and Weber River.

COOPERATION.--Gage-height record and capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 21,270 acre-ft, May 30, June 1, 1983; elevation, 6,008.4 ft. Minimum since original filling of reservoir, 4,390 acre-ft Feb. 26, 29, 1984, elevation, 5,946.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 19,640 acre-ft June 7; elevation, 6,004.0 ft; minimum contents observed, 13,350 acre-ft Nov. 30; elevation, 5,985.0 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	5,993.8	16,110	-
Oct. 31	5,992.0	15,530	-580
Nov. 30	5,985.0	13,350	-2,180
Dec. 31	5,986.2	13,710	+360
CAL YR 1986	-	-	-1,600
Jan. 31	5,988.7	14,490	+780
Feb. 28	5,990.7	15,110	+620
Mar. 31	5,994.2	16,250	+1,140
Apr. 30	6,001.7	18,820	+2,570
May 31	6,003.8	19,570	+750
June 30	6,001.3	18,680	-890
July 31	5,996.1	16,870	-1,810
Aug. 31	5,990.4	15,020	-1,850
Sept. 30	5,986.6	13,840	-1,180
WTR YR 1987	-	-	-2,270

* No gage reading, contents interpolated.

10134000 EAST CANYON RESERVOIR NEAR MORGAN, UT

LOCATION.--Lat 40°55'14", long 111°35'59", in NE¼SE¼NW¼ sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on upstream face of concrete dam on East Canyon Creek, 9.0 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. October 1931 to September 1937, month-end contents only published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Elevations determined from direct readings on upstream face of dam on days shown. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). Prior to Oct. 1, 1953, staff gage at site 500 ft east of dam and Oct. 1, 1953 to Sept. 30, 1964, tape gage on upstream face of dam then in use at different datum. Oct. 1, 1964 to Sept. 30, 1965, temporary reference marks at present datum set by Bureau of Reclamation.

REMARKS.--Reservoir was formed in 1896 by a 58-ft rockfill dam, capacity, 3,850 acre-ft, which was raised 25 ft in 1900, capacity, 9,000 acre-ft, raised 12 ft more in 1902, capacity, 14,000 acre-ft, was replaced in 1917 by concrete dam which formed a reservoir having a capacity of 26,790 acre-ft (revised), and was replaced in 1966 by present concrete thin-arch dam which forms a reservoir having an active capacity of 48,110 acre-ft between elevation 5,577.0 ft and 5,705.0 ft. Dead storage, 3,090 acre-ft. Figures given herein represent active contents. Water is used for irrigation in Morgan, Davis, and Weber Counties.

COOPERATION.--Capacity table provided by Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 49,840 acre-ft June 1, 1983, elevation, 5,707.5 ft; no contents at times in 1931, 1934, 1937, 1946, 1954, 1961, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 46,820 acre-ft June 6, 8, elevation, 5,703.1 ft; minimum observed, 25,530 acre-ft Sept. 30, elevation, 5,665.8 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*43,200	-
Oct. 31	-	*40,730	-2,470
Nov. 30	-	*38,120	-2,610
Dec. 31	5,689.70	38,290	+170
CAL YR 1986	-	-	-2,690
Jan. 31	5,693.20	40,420	+2,130
Feb. 28	5,696.50	42,500	+2,080
Mar. 31	-	*40,300	-2,200
Apr. 30	-	*43,460	+3,160
May 31	-	*46,550	+3,090
June 30	-	*42,690	-3,860
July 31	-	*33,440	-9,250
Aug. 31	5,673.00	29,050	-4,390
Sept. 30	5,665.80	25,530	-3,520
WTR YR 1987	-	-	-17,670

* No gage reading, contents interpolated.

10134500 EAST CANYON CREEK NEAR MORGAN, UT

LOCATION.--Lat 40°[illegible]'21", long 111°36'23", in SW¼NW¼NW¼ sec.10, T.2 N., R.3 E., Morgan County, Hydrologic Unit 16020102, on right bank 2,500 ft downstream from East Canyon Dam, 2.4 mi upstream from Sheep Canyon, and 8.7 mi southeast of Morgan.

DRAINAGE AREA.--144 mi^2.

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only prior to October 1937, published in WSP 1314.

GAGE.--Water-stage recorder and Lyman rectangular weir. Altitude of gage is 5,460 ft from river-profile map.

REVISED RECORDS.--WSP 1634, WDR UT-77-1: Drainage area.

REMARKS.--No estimated daily discharges. Records good. No diversions between station and East Canyon Reservoir (see preceding page), which completely regulates flow.

AVERAGE DISCHARGE.--56 years, 58.9 ft^3/s, 42,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 872 ft^3/s May 4, 1952, gage height, 3.49 ft; minimum daily, 0.2 ft^3/s Dec. 19, 29, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft^3/s Dec. 16, gage height, 1.36 ft; minimum daily discharge, 5.8 ft^3/s Dec. 21-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	10	34	6.5	6.5	7.1	173	14	16	149	149	108
2	62	10	7.9	6.5	6.5	7.2	172	14	16	149	140	88
3	62	10	7.9	6.5	6.5	7.2	139	14	16	148	120	79
4	62	38	7.9	6.5	6.5	7.2	119	14	16	148	109	79
5	62	56	7.9	6.5	6.5	7.2	119	15	16	148	87	65
6	62	47	7.9	6.5	6.5	7.2	119	15	38	147	77	59
7	62	42	7.9	6.5	6.5	7.2	119	15	48	147	77	59
8	62	42	7.9	6.5	6.5	7.3	102	15	78	146	67	59
9	150	42	8.6	6.5	6.4	7.4	88	15	93	146	63	59
10	221	42	8.5	6.5	6.5	33	88	15	92	145	63	75
11	219	42	8.6	6.5	6.5	53	43	15	92	164	62	83
12	216	90	8.6	6.5	6.5	75	21	15	93	172	62	83
13	216	220	35	6.5	6.5	126	17	15	111	192	62	83
14	216	219	49	6.5	6.5	151	13	15	120	201	63	82
15	216	213	103	6.5	6.5	150	13	15	120	200	61	82
16	216	211	228	6.5	6.5	150	13	15	120	200	61	82
17	216	212	227	6.5	6.5	150	13	15	141	199	61	82
18	216	211	223	6.5	6.5	150	13	15	151	197	61	82
19	162	211	94	6.5	6.5	181	13	15	151	195	81	82
20	12	211	5.9	6.5	6.5	201	14	15	151	195	90	82
21	11	211	5.8	6.5	6.5	199	14	15	151	195	90	82
22	10	144	5.8	6.5	6.5	199	14	15	151	197	109	82
23	11	101	5.8	6.5	6.5	199	14	16	151	197	118	81
24	11	101	5.8	6.6	6.5	199	14	16	151	197	118	81
25	11	101	5.8	7.2	6.7	200	14	16	151	197	118	81
26	10	74	5.8	7.0	6.7	199	14	16	150	196	117	60
27	10	49	6.1	6.5	6.9	200	14	15	150	195	118	49
28	10	49	6.5	6.6	7.0	182	14	15	150	195	118	42
29	10	57	6.5	6.5	---	171	14	15	150	178	111	38
30	11	62	6.5	6.5	---	171	14	15	150	169	108	38
31	11	---	6.5	6.5	---	172	---	16	---	168	108	---
TOTAL	2888	3128	1155.4	202.9	183.2	3576.0	1551	466	3184	5472	2849	2187
MEAN	93.2	104	37.3	6.55	6.54	115	51.7	15.0	106	177	91.9	72.9
MAX	221	220	228	7.2	7.0	201	173	16	151	201	149	108
MIN	10	10	5.8	6.5	6.4	7.1	13	14	16	145	61	38
AC-FT	5730	6200	2290	402	363	7090	3080	924	6320	10850	5650	4340

CAL YR 1986 TOTAL 50337.1 MEAN 138 MAX 356 MIN 5.8 AC-FT 99840
WTR YR 1987 TOTAL 26842.5 MEAN 73.5 MAX 228 MIN 5.8 AC-FT 53240

10136500 WEBER RIVER AT GATEWAY, UT

LOCATION.--Lat 41°08'13", long 111°49'54", in NE¼SW¼SW¼ sec.27, T.5 N., R.1 E., Morgan County, Hydrologic Unit 16020102, on left bank 400 ft downstream from tailrace of Gateway powerplant, 500 ft upstream from Union Pacific Railroad bridge, 1,200 ft downstream from Strawberry Creek, and 3,200 ft east of section house at Gateway.

DRAINAGE AREA.--1,627 mi^2.

PERIOD OF RECORD.--November 1889 to June 1893, July to December 1893 (gage heights only), August 1894 to September 1899, August to November 1900, January to October 1901, April to June 1903 (gage heights and discharge measurements only), July to August 1919, August 1920 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Uinta" 1889-1903.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft by barometer. Oct. 13, 1889 to July 11, 1903, nonrecording gage at site 1.2 mi downstream at different datum. June 22, 1919 to Oct. 22, 1929, water-stage recorder at site 900 ft upstream at different datum. Oct. 22, 1929 to Nov. 27, 1964, at sites 1,300 ft downstream at different datums.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions for irrigation above and below station. Water diverted above station by Gateway Canal since July 1957, part of which returns to river above station through tailrace of Gateway hydroelectric powerplant. Flow regulated by Rockport, Echo, Lost Creek, and East Canyon Reservoirs (see stations 10129400, 10131500, 10132490, and 10134000).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,980 ft^3/s May 31, 1896; minimum observed, 33 ft^3/s Feb. 3, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,110 ft^3/s Oct. 13, 18, 19, gage height, 3.40 ft; minimum daily, 199 Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598	209	606	346	369	310	634	543	321	391	362	530
2	646	207	589	361	367	313	673	567	337	391	348	480
3	602	205	586	350	374	336	704	455	376	378	338	496
4	551	206	584	361	372	361	704	379	383	371	351	570
5	554	228	588	369	374	416	725	312	343	394	380	545
6	541	237	577	358	378	540	764	358	364	397	403	495
7	534	231	e560	350	378	618	780	372	447	377	402	461
8	545	234	e530	350	375	637	766	403	458	371	424	450
9	542	236	e490	276	375	680	727	400	425	393	397	469
10	658	234	467	e270	370	582	716	423	410	467	389	474
11	747	219	497	e290	371	597	722	451	382	442	399	453
12	993	199	475	e300	386	566	686	421	354	410	402	426
13	1050	329	455	e310	383	664	621	378	344	393	395	405
14	1050	374	471	e320	444	704	580	384	356	371	424	416
15	1060	468	469	e353	412	642	590	408	394	359	471	477
16	1080	505	450	e356	395	722	548	453	427	404	444	428
17	1070	540	435	e350	392	738	542	452	412	449	430	409
18	1090	524	431	e350	387	710	509	539	396	432	425	405
19	1060	542	527	352	379	701	555	477	441	422	454	405
20	847	605	470	e350	370	698	482	470	441	391	422	389
21	305	628	444	e350	361	668	397	477	403	462	441	372
22	275	565	416	e350	364	663	392	410	402	432	480	373
23	255	569	420	e350	371	652	407	330	410	386	420	348
24	243	624	401	343	388	653	449	315	394	376	415	343
25	237	624	382	330	321	652	420	336	354	366	430	326
26	229	608	382	354	302	643	418	382	385	348	403	322
27	223	600	374	371	311	638	431	387	386	353	380	321
28	220	596	378	377	304	633	481	407	386	363	369	335
29	217	624	379	366	---	598	482	394	426	354	367	330
30	216	657	359	375	---	590	491	351	423	335	398	313
31	215	---	341	364	---	601	---	337	---	363	554	---
TOTAL	18253	12627	14533	10652	10373	18526	17396	12771	11780	12141	12717	12566
MEAN	589	421	469	344	370	598	580	412	393	392	410	419
MAX	1090	657	606	377	444	738	780	567	458	467	554	570
MIN	215	199	341	270	302	310	392	312	321	335	338	313
AC-FT	36200	25050	28830	21130	20570	36750	34500	25330	23370	24080	25220	24920

CAL YR 1986 TOTAL 527075 MEAN 1444 MAX 4800 MIN 199 AC-FT 1045000
WTR YR 1987 TOTAL 164335 MEAN 450 MAX 1090 MIN 199 AC-FT 326000

e Estimated

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°16'07", long 111°40'24", in SE¼NE¼SW¼ sec.12, T.6 N., R.2 E., Weber County, Hydrologic Unit 16020102, on right bank 0.5 mi downstream from Magpie Creek, 0.5 mi upstream from Huntsville Mountain Canal, 5.0 mi downstream from Causey Dam, and 5.0 mi east of Huntsville.

DRAINAGE AREA.--137 mi^2.

PERIOD OF RECORD.--March 1921 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,190 ft by barometer. Prior to Aug. 14, 1934, at site 300 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. One small diversion above station. Flow regulated by Causey Reservoir since Jan. 4, 1966.

AVERAGE DISCHARGE.--66 years, 117 ft^3/s, 84,770 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft^3/s May 3, 1952, gage height, 5.98 ft; minimum, 9 ft^3/s Feb. 28, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 248 ft^3/s Apr. 30, gage height, 2.54 ft; minimum daily discharge, 35 ft^3/s Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	65	38	54	54	38	72	224	77	91	71	46
2	95	64	38	55	54	44	75	214	76	88	68	44
3	93	58	38	55	55	57	80	184	75	88	64	43
4	92	45	43	56	55	60	88	162	74	88	62	47
5	91	44	57	56	55	63	95	151	72	87	62	50
6	78	41	57	55	55	68	114	143	74	87	63	49
7	71	40	57	55	55	76	134	139	74	88	59	49
	71	41	57	54	55	81	139	133	72	85	56	49
	70	41	55	e52	51	84	138	130	71	80	56	49
10	70	41	55	e50	46	83	138	119	71	81	56	46
11	70	40	55	e52	37	83	148	113	67	81	56	44
12	69	41	55	e54	38	80	141	108	63	80	56	44
13	69	41	55	55	39	83	134	105	62	79	56	44
14	69	41	55	e54	41	85	139	99	62	79	57	45
15	69	42	55	55	39	83	146	96	61	78	60	44
16	65	41	55	54	39	86	165	92	61	78	58	45
17	69	41	57	e52	39	86	174	91	61	81	57	45
18	69	39	56	e54	40	89	176	98	69	81	52	44
19	71	35	56	54	40	87	169	95	82	81	49	45
20	74	36	56	e52	39	83	138	89	87	81	49	45
21	71	40	56	e50	39	80	103	98	86	88	49	46
22	71	41	55	e52	39	78	104	91	86	83	48	47
23	70	41	55	54	39	77	109	85	85	79	48	47
24	70	40	55	54	39	75	112	82	87	78	50	47
25	69	40	55	54	39	74	110	82	88	78	49	47
26	69	39	55	54	38	74	106	86	88	78	48	47
27	69	39	55	54	39	74	100	88	87	79	48	47
28	69	39	55	55	38	73	147	85	88	79	48	46
29	69	39	55	54	---	71	231	83	92	80	48	45
30	69	39	54	54	---	70	230	82	94	78	47	45
31	68	---	53	54	---	71	---	79	---	74	48	---
TOTAL	2287	1274	1647	1667	1236	2316	3955	3526	2292	2536	1698	1381
MEAN	73.8	42.5	53.1	53.8	44.1	74.7	132	114	76.4	81.8	54.8	46.0
MAX	95	65	57	56	55	89	231	224	94	91	71	50
MIN	68	35	38	50	37	38	72	79	61	74	47	43
AC-FT	4540	2530	3270	3310	2450	4590	7840	6990	4550	5030	3370	2740

CAL YR 1986 TOTAL 94607 MEAN 259 MAX 1100 MIN 35 AC-FT 187700
WTR YR 1987 TOTAL 25815 MEAN 70.7 MAX 231 MIN 35 AC-FT 51200

e Estimated

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT

LOCATION.--Lat 41°15'14", long 111°50'32", in SW¼NW¼SE¼ sec.16, T.6 N., R.1 E., Weber County, Hydrologic Unit 16020102, on right bank 150 ft upstream from mouth, 150 ft downstream from culvert under State Highway 39, 250 ft downstream from Pine View Dam on Ogden River, 3.8 mi west of Huntsville, and 7.2 mi east of Ogden.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,800 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Records do not include 690 acre-feet diverted above gage by Ogden City Water Department.

AVERAGE DISCHARGE.--29 years, 10.9 ft^3/s, 7,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 533 ft^3/s May 21, 1981, gage height, 3.95 ft from indirect measurement, maximum gage height, 5.76 ft, Feb. 18 or 19, 1986 (backwater from trash buildup on trees below gage). Flood of Feb. 18 or 19, 1986 probably exceeded that of May 21, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 7	1800	*70	*2.48	No other peak greater than base discharge.			

Minimum daily discharge, 0.11 ft^3/s June 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.6	1.8	1.0	.65	.95	5.1	12	9.0	.18	e.34	e.30
2	2.3	1.7	1.9	1.1	.65	.94	7.1	13	7.2	.17	e.34	e.30
3	1.8	1.6	2.0	1.0	.69	1.0	13	10	6.2	.32	e.34	e.30
4	1.0	1.6	2.0	1.2	.74	1.4	19	7.7	6.3	.61	e.61	e1.3
5	1.1	1.6	2.1	1.2	.74	2.2	31	6.8	6.5	1.4	e.56	e1.2
6	1.1	1.7	2.0	1.0	.73	4.0	48	6.8	6.2	1.6	e.50	e1.1
7	1.2	1.7	1.9	1.0	.76	6.6	47	7.0	5.4	2.4	e.74	e1.1
8	.66	1.6	1.8	1.0	.77	6.3	42	6.8	4.2	2.7	e.66	e.40
9	.98	1.9	1.3	.95	.76	8.9	34	7.0	4.6	2.3	e.58	e.37
10	2.1	1.8	.79	e.70	.72	7.4	29	7.0	6.0	1.7	e.54	e.35
11	2.1	1.5	.82	.84	.73	6.9	29	6.9	4.9	1.1	e.50	e.33
12	2.1	1.8	.84	.78	.85	6.1	24	6.9	4.6	.81	e.44	e1.0
13	2.1	1.7	1.2	.74	.90	8.6	20	6.2	4.7	.61	e.39	e1.0
14	2.1	1.7	1.4	.71	1.2	7.6	17	5.8	4.4	.34	e.36	e.34
15	2.0	1.8	1.3	.73	.99	5.8	15	6.2	4.2	.13	e.35	e.32
16	1.9	1.9	1.2	.78	.79	6.4	19	11	4.1	.49	e.34	e.31
17	1.8	2.3	1.2	.78	.64	8.1	20	12	3.8	.65	e.33	e.30
18	1.8	2.3	1.2	.71	.70	6.9	18	13	3.2	.62	e.32	e.29
19	1.8	6.1	1.3	.71	.91	5.3	16	13	2.5	.63	e.32	e.96
20	1.9	4.4	1.3	.73	.89	4.3	13	12	2.2	.63	e.32	e.90
21	1.8	5.1	1.2	.73	.78	3.6	12	24	2.0	e1.7	e.32	e.84
22	1.8	5.3	1.2	.75	.84	3.4	12	27	1.4	e.62	e.32	.81
23	1.8	3.7	1.3	.74	.92	3.3	12	26	.41	e.56	e.32	.83
24	1.7	3.2	1.3	.71	.87	3.3	12	23	.28	e.52	e.31	.86
25	1.5	3.0	1.2	.66	.93	3.4	13	22	.21	e.50	e.31	.87
26	1.6	2.5	1.2	.61	.97	3.4	15	20	.11	e.47	e.31	.85
27	1.6	2.4	1.2	.61	.93	3.2	15	18	.21	e.44	e.30	.98
28	1.5	2.5	1.1	.85	.95	3.0	14	18	.17	e.40	e.30	.87
29	1.5	2.4	1.1	.82	---	2.7	14	16	.26	e.38	e.30	.64
30	1.6	2.2	1.0	.73	---	2.5	13	14	.15	e.36	e.30	.62
31	1.6	---	.89	.70	---	3.1	---	13	---	e.35	e.30	---
TOTAL	51.44	74.6	42.04	25.57	23.00	140.59	598.2	398.1	105.40	25.69	12.27	20.64
MEAN	1.66	2.49	1.36	.82	.82	4.54	19.9	12.8	3.51	.83	.40	.69
MAX	2.3	6.1	2.1	1.2	1.2	8.9	48	27	9.0	2.7	.74	1.3
MIN	.66	1.5	.79	.61	.64	.94	5.1	5.8	.11	.13	.30	.29
AC-FT	102	148	83	51	46	279	1190	790	209	51	24	41

CAL YR 1986 TOTAL 8676.11 MEAN 23.8 MAX 480 MIN .10 AC-FT 17210
WTR YR 1987 TOTAL 1517.52 MEAN 4.16 MAX 48 MIN .11 AC-FT 3010

e Estimated

10141000 WEBER RIVER NEAR PLAIN CITY, UT

LOCATION.--Lat 41°16'42", long 112°05'28", in NW¼NW¼NE¼ sec.8, T.6 N., R.2 W., Weber County, Hydrologic Unit 16020102, on upstream side of right highway bridge abutment, on State Highway 40, 1 mi downstream from Fourmile Creek, 1.5 mi south of Plain City, and 6 mi upstream from mouth.

DRAINAGE AREA.--2,081 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1904 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,207.10 ft NGVD of 1929. Prior to Aug. 29, 1949, nonrecording gage at same site and datum, and Aug. 30, 1949 to June 22, 1966, water-stage recorder on right bank 50 ft upstream at same datum. Prior to Oct. 1, 1986 at datum 10.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. Practically entire flow is diverted during summer months for irrigation above station. Flow regulated by Rockport, Echo, Lost Creek, East Canyon, and Pine View Reservoirs; also diversion above station to Willard Bay Reservoir (see stations 10129400, 10131500, 10132490, 10134000, and 10140800).

AVERAGE DISCHARGE.--22 years (1966-87), 622 ft^3/s, 450,600 acre-ft/yr since completion of storage reservoirs listed in Remarks paragraph.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft^3/s May 6, 1952, gage height, 19.01 ft; practically no flow during latter part of several summers since 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,360 ft^3/s Oct. 18, gage height, 18.42 ft; minimum daily, 57 ft^3/s July 2-5, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	972	469	818	481	526	252	814	118	172	59	63	73
2	980	484	815	507	523	232	820	159	149	57	63	76
3	963	490	796	484	551	321	802	100	166	57	63	82
4	887	484	783	535	534	546	825	100	161	57	63	86
5	858	492	779	603	506	626	812	92	155	57	62	87
6	851	502	767	538	531	698	816	85	143	58	67	77
7	796	507	738	469	520	859	805	96	146	58	68	78
8	834	560	716	398	530	915	775	98	146	58	63	77
9	831	506	643	381	448	994	748	89	139	60	64	79
10	923	483	590	350	362	912	693	87	119	60	63	80
11	966	477	608	371	301	887	659	105	124	57	64	81
12	1160	475	613	391	276	849	612	100	116	59	63	80
13	1230	483	592	392	285	971	473	99	116	59	65	90
14	1190	589	613	390	419	1060	373	75	109	60	68	90
15	1220	662	637	356	339	973	348	114	131	60	86	93
16	1250	743	674	355	300	1000	321	146	99	62	74	91
17	1260	768	572	461	309	1050	272	161	97	82	69	83
18	1280	786	562	462	312	1050	270	220	94	88	67	83
19	1290	801	593	473	285	1030	259	195	88	62	68	84
20	1030	799	665	457	294	1020	219	170	87	68	72	84
21	606	758	631	444	299	1000	188	251	85	84	70	85
22	570	853	593	468	296	988	192	232	80	87	72	85
23	523	828	581	488	307	984	177	204	79	60	73	91
24	499	785	563	540	322	968	153	178	75	61	75	86
25	522	786	530	523	279	975	137	192	74	60	76	87
26	524	833	519	564	208	955	123	201	71	61	74	88
27	516	827	509	525	236	917	113	220	68	64	76	87
28	509	795	504	589	259	908	104	253	66	64	72	89
29	506	762	508	536	---	860	110	218	64	63	74	91
30	506	753	512	530	---	842	119	205	66	62	74	95
31	499	---	478	527	---	821	---	191	---	62	74	---
TOTAL	26551	19540	19502	14588	10357	26463	13132	4754	3285	1966	2145	2538
MEAN	856	651	629	471	370	854	438	153	109	63.4	69.2	84.6
MAX	1290	853	818	603	551	1060	825	253	172	88	86	95
MIN	499	469	478	350	208	232	104	75	64	57	62	73
AC-FT	52660	38760	38680	28940	20540	52490	26050	9430	6520	3900	4250	5030

CAL YR 1986 TOTAL 555493 MEAN 1522 MAX 5480 MIN 111 AC-FT 1102000
WTR YR 1987 TOTAL 144821 MEAN 397 MAX 1290 MIN 57 AC-FT 287300

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1981.
WATER TEMPERATURES: October 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,130 microsiemens May 16, 1977; minimum, 120 microsiemens November 11, 1978.
WATER TEMPERATURES: Maximum, 28.5°C June 25, 26, 1977; minimum, 0.0°C Dec. 31, 1978, Jan. 1, 1979, Jan 1, 1980.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1986											
16...	0950	722	530	8.50	0.5	1.5	2.9	12.7	656	K100	K10
MAR , 1987											
25...	1230	983	530	8.20	5.0	6.0	3.3	11.1	655	K3	K5
JUN											
04...	1815	159	650	8.20	26.5	19.0	5.6	7.5	650	180	48
AUG											
12...	0940	62	770	7.80	23.5	21.0	3.7	3.6	650	K65	K24

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD MG/L AS HCO3	CARBONATE WH WAT TOTAL FIELD MG/L AS CO3	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC , 1986											
16...	230	27	63	18	24	18	0.7	2.9	230	12	205
MAR , 1987											
25...	230	24	64	17	24	18	0.7	3.0	230	--	206
JUN											
04...	240	29	62	21	43	27	1	5.2	260	--	213
AUG											
12...	260	18	56	24	61	33	2	6.9	300	--	246

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
DEC , 1986											
16...	29	29	0.20	7.6	295	310	0.40	575	0.450	0.010	0.460
MAR , 1987											
25...	32	34	0.20	8.5	317	310	0.43	841	--	<0.010	0.520
JUN											
04...	29	64	0.30	8.9	374	370	0.51	161	1.18	0.020	1.20
AUG											
12...	28	76	0.30	13	436	430	0.59	73	1.44	0.060	1.50

K Results based on colony count outside acceptable range (non-ideal colony count).

10141000 WEBER RIVER NEAR PLAIN CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC , 1986										
16...	0.060	0.060	0.08	0.74	0.80	0.220	--	0.240	0.220	0.67
MAR , 1987										
25...	0.080	0.060	0.08	0.32	0.40	0.260	--	0.170	0.150	0.46
JUN										
04...	0.180	0.160	0.21	1.0	1.2	0.770	2.4	0.670	0.580	1.8
AUG										
12...	0.330	0.320	0.41	1.1	1.4	1.40	--	1.10	1.10	3.4

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
DEC , 1986											
16...	0950	<10	3	110	<0.5	1	<1	<3	3	11	<5
MAR , 1987											
25...	1230	<10	2	99	<0.5	<1	<1	<3	2	55	<5
JUN											
04...	1815	<10	3	110	<0.5	<1	2	<3	4	18	<5
AUG											
12...	0940	40	3	120	<0.5	<1	5	<3	4	73	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC , 1986										
16...	24	16	<0.1	<10	2	<1	<1	250	<6	6
MAR										
25...	20	26	<0.1	<10	2	<1	<1	260	<6	6
JUN										
04...	38	78	<0.1	<10	1	<1	<1	280	<6	12
AUG										
12...	45	54	<0.1	<10	2	<1	<1	300	<6	8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1986						
16...	0950	722	1.5	44	53	103
MAR , 1987						
25...	1245	983	6.0	86	43	114
JUN						
04...	1815	159	19.0	100	23	9.9
AUG						
12...	0940	62	21.0	78	20	3.3

10146400 CURRANT CREEK NEAR MONA, UT

LOCATION.--Lat 39°48'09", long 111°51'44", in NE¼SW¼NW¼, sec.6, T.12 S., R.1 E., Juab County, Hydrologic Unit 16020201, on left bank 20 ft upstream from old bridge crossing, 300 ft downstream from Burriston ponds, 0.5 mi upstream from Mount Nebo Reservoir, 2 mi southwest of Mona.

DRAINAGE AREA.--225 mi^2.

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,890 ft from topographic map. Prior to June 10, 1985, at same site, different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--9 years, 50.1 ft^3/s, 36,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft^3/s May 14, 1984, gage height, 6.30 ft; minimum, 3.4 ft^3/s Aug. 1-4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 191 ft^3/s Feb. 14, gage height, 2.50 ft; minimum daily, 11 ft^3/s on many days June - September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	42	49	40	58	44	36	24	16	14	11	11
2	39	40	47	43	63	46	35	35	16	13	11	12
3	49	42	47	43	66	47	34	30	16	12	11	12
4	49	42	48	48	76	47	33	26	16	12	11	12
5	41	42	52	51	63	45	44	24	15	12	11	12
6	39	47	64	51	56	45	38	22	14	12	11	12
7	38	58	62	48	55	46	34	20	15	12	11	12
8	37	58	53	47	56	50	33	20	15	12	11	12
9	36	50	48	44	59	144	32	19	14	12	11	12
10	35	55	37	44	60	82	31	19	14	12	11	12
11	43	48	34	43	62	56	31	18	13	12	11	12
12	42	44	33	41	63	46	29	18	13	13	11	12
13	38	45	35	e40	71	43	29	19	12	13	11	12
14	38	45	40	e40	180	49	30	18	11	12	11	13
15	36	44	45	e40	117	57	28	19	11	12	11	12
16	35	43	49	e39	80	94	25	20	11	12	11	13
17	37	44	49	e39	75	154	25	20	11	12	11	12
18	46	47	45	e39	63	112	23	25	12	11	11	12
19	46	56	53	e38	59	77	26	29	13	11	11	13
20	41	51	53	e38	54	74	34	26	13	11	11	13
21	42	50	46	e39	49	58	29	23	13	14	11	13
22	43	51	45	e39	49	56	27	24	13	14	11	13
23	42	50	41	e40	50	47	25	22	13	12	11	13
24	40	49	38	e41	50	44	24	21	13	12	13	13
25	40	50	40	47	56	40	23	20	13	11	13	13
26	41	47	38	52	55	39	23	20	13	11	13	13
27	41	46	41	67	50	41	24	21	13	11	12	12
28	41	49	44	95	46	43	23	21	13	11	12	13
29	41	49	40	58	---	41	21	23	13	11	12	13
30	42	51	37	53	---	38	22	23	14	11	12	13
31	44	---	38	57	---	38	---	19	---	11	11	---
TOTAL	1261	1435	1391	1444	1841	1843	871	688	402	371	351	372
MEAN	40.7	47.8	44.9	46.6	65.7	59.5	29.0	22.2	13.4	12.0	11.3	12.4
MAX	49	58	64	95	180	154	44	35	16	14	13	13
MIN	35	40	33	38	46	38	21	18	11	11	11	11
AC-FT	2500	2850	2760	2860	3650	3660	1730	1360	797	736	696	738

CAL YR 1986 TOTAL 20582 MEAN 56.4 MAX 396 MIN 15 AC-FT 40820
WTR YR 1987 TOTAL 12270 MEAN 33.6 MAX 180 MIN 11 AC-FT 24340

e Estimated

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT

LOCATION.--39°57'00", long 111°12'58", in NE¼NE¼SW¼ sec.14, T.10 S., R.6 E., Utah County, Hydrologic Unit 16020202, on right bank 230 ft upstream from mouth and U.S. Highway 6-50, 250 ft downstream from Denver & Rio Grande Western Railroad, 7.4 mi west of Soldier Summit, and 15.2 mi east of Thistle.

DRAINAGE AREA.--19.4 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder and artificial control. Altitude of gage is 6,120 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No diversion.

AVERAGE DISCHARGE.--24 years, 6.32 ft^3/s, 4,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,200 ft^3/s Aug. 21, 1983, result of instantaneous removal of upstream blockage, gage height, about 7.85 ft from high-water mark, from rating curve extended above 26 ft^3/s on basis of slope-area measurement; minimum, 0.15 ft^3/s Aug. 19, 20, 1983, result of temporary blockage upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 27	1300	*18	*2.05	No other peak greater than base discharge.			

Minimum discharge, 1.6 ft^3/s Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.7	e3.9	e3.1	3.3	e4.7	3.7	3.7	2.3	2.8	2.3	2.9
2	5.5	4.6	e4.2	e3.4	3.4	4.4	3.7	4.0	2.3	2.8	2.5	2.9
3	5.2	4.5	e4.5	e3.3	3.4	4.3	3.7	3.8	2.3	2.8	e2.6	3.0
4	4.9	4.5	e4.5	3.7	3.4	4.4	3.8	3.6	2.2	2.7	e2.5	2.9
5	4.8	4.6	4.3	3.7	3.3	4.5	3.9	3.6	2.2	2.7	e2.5	2.8
6	4.8	4.7	4.4	3.7	3.4	4.4	3.9	3.5	2.3	2.7	e2.6	2.7
7	4.7	4.7	4.3	e2.5	3.5	4.3	3.9	3.4	2.7	2.7	e2.5	2.7
8	4.7	e4.7	4.3	e2.3	3.5	4.1	3.9	3.4	3.4	2.6	e2.7	2.7
9	4.6	e4.6	4.4	e2.2	3.4	4.3	3.9	3.5	3.4	2.6	e2.6	2.7
10	4.5	4.7	e4.0	e2.2	3.5	4.0	3.9	3.3	3.3	2.6	e2.7	2.6
11	4.6	e4.6	e4.1	e2.3	3.5	4.1	3.9	3.3	3.2	2.8	e2.5	2.6
12	4.7	4.9	e4.3	e2.5	3.4	4.0	3.9	3.2	3.1	2.8	e2.6	2.6
13	4.6	e4.9	e4.4	e3.0	3.5	4.1	3.8	3.2	3.0	2.5	e2.6	2.5
14	4.5	4.9	e4.5	e2.9	3.6	4.1	3.8	3.1	3.1	2.5	e2.7	2.4
15	4.5	4.5	e4.7	e2.7	3.6	4.0	3.8	3.0	3.1	2.5	e2.8	2.4
16	4.4	4.9	3.9	e3.1	3.4	4.0	3.8	3.0	3.0	2.5	e2.9	2.4
17	4.5	4.9	4.3	2.7	3.3	4.1	3.8	3.0	3.0	2.5	e2.8	2.4
18	4.6	4.9	e4.0	3.0	3.5	4.1	3.9	3.1	3.0	2.5	e2.7	2.3
19	4.5	5.0	3.9	3.2	3.4	4.0	4.0	3.2	2.9	2.5	e2.8	2.3
20	4.6	4.8	3.8	3.1	3.4	3.8	4.0	3.2	2.9	2.6	e2.9	2.3
21	4.7	4.9	e3.6	3.2	3.4	3.8	3.9	3.0	2.9	2.7	e2.8	2.2
22	4.6	4.8	e3.5	3.4	3.8	3.7	3.8	3.0	2.8	2.6	e2.9	2.1
23	4.5	4.8	e3.6	3.1	4.2	3.7	3.8	3.1	2.9	2.5	e2.8	2.1
24	4.6	e4.4	e3.5	3.1	4.1	3.8	3.8	2.8	2.8	2.5	e3.3	2.0
25	4.5	4.5	e3.3	3.2	4.4	3.7	3.8	2.9	2.8	2.5	e3.0	1.9
26	4.5	e4.3	e3.2	3.2	e4.2	3.8	3.8	3.0	2.8	2.6	2.8	1.9
27	4.5	e4.3	3.6	3.3	4.0	3.7	3.9	2.9	2.8	3.6	2.5	1.9
28	4.5	4.2	3.7	3.4	e4.5	3.6	3.9	2.7	2.8	4.1	2.4	1.9
29	4.6	4.2	e3.5	3.4	---	3.7	3.7	2.6	2.9	3.1	2.6	2.0
30	4.6	4.3	e3.7	3.2	---	4.1	3.8	2.6	2.9	2.7	2.8	2.2
31	4.7	---	e3.3	3.2	---	3.8	---	2.4	---	2.5	2.8	---
TOTAL	144.2	139.7	123.2	94.3	101.3	125.1	115.2	98.1	85.1	84.1	83.5	72.3
MEAN	4.65	4.66	3.97	3.04	3.62	4.04	3.84	3.16	2.84	2.71	2.69	2.41
MAX	5.5	5.0	4.7	3.7	4.5	4.7	4.0	4.0	3.4	4.1	3.3	3.0
MIN	4.4	4.2	3.2	2.2	3.3	3.6	3.7	2.4	2.2	2.5	2.3	1.9
AC-FT	286	277	244	187	201	248	228	195	169	167	166	143

CAL YR 1986 TOTAL 3663.1 MEAN 10.0 MAX 34 MIN 2.9 AC-FT 7270
WTR YR 1987 TOTAL 1266.1 MEAN 3.47 MAX 5.5 MIN 1.9 AC-FT 2510

e Estimated

10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT

LOCATION.--Lat 40°00'34", long 111°29'42", in SE¼SW¼SW¼ sec.21, T.9 S., R.4 E., Utah County, Hydrologic Unit 16020202, on right bank 1.0 mi downstream from Thistle slide, 1.2 mi upstream from Diamond Fork and 12 mi southeast of Spanish Fork.

DRAINAGE AREA.--495 mi² (approximately).

PERIOD OF RECORD.--April 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,000 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,420 ft³/s May 15, 1984; minimum daily, 0.80 ft³/s Apr. 17, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 308 ft³/s Aug. 6, gage height, 75.71 ft; minimum daily discharge, 39 ft³/s Aug. 13, 14, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	92	e70	e67	82	75	85	114	83	51	62	42
2	110	92	e74	76	84	82	87	124	81	51	57	42
3	104	92	e78	e64	85	84	88	120	78	47	54	44
4	97	91	e82	75	88	91	91	115	76	e43	46	46
5	94	e92	84	76	84	100	93	110	75	e42	49	46
6	92	e98	86	75	82	97	92	108	73	e41	72	45
7	91	e100	86	e64	82	93	95	110	74	e41	68	44
8	86	e100	85	e66	84	92	95	113	76	43	55	44
9	86	e95	78	e61	85	109	97	110	75	44	e49	44
10	85	e90	e67	e57	88	99	95	108	73	41	e58	44
11	85	e91	e69	e63	92	91	100	105	68	43	73	44
12	85	e95	e71	e66	91	86	101	102	67	61	e42	42
13	86	e94	72	e66	99	89	90	106	66	49	39	41
14	90	e93	76	e60	109	86	91	98	66	48	39	43
15	90	e93	75	e60	90	86	98	98	67	46	42	43
16	90	e93	81	e65	88	86	107	97	65	45	41	42
17	90	e93	e72	e54	86	89	114	99	61	47	39	43
18	94	e92	e76	e63	84	92	122	103	60	46	41	43
19	92	91	79	e67	84	90	116	111	58	44	40	43
20	92	90	79	e73	78	86	101	108	58	44	40	43
21	92	88	e70	e72	76	78	96	110	59	54	41	43
22	91	88	e68	e72	78	82	97	103	56	52	46	43
23	90	86	e69	74	82	80	101	100	53	48	47	43
24	88	85	e66	79	82	75	94	99	51	47	69	42
25	88	85	e64	82	78	77	98	97	49	46	56	43
26	86	82	e65	82	76	76	103	99	50	48	49	43
27	85	84	75	84	78	78	102	99	48	61	45	40
28	85	82	72	91	74	81	103	97	47	69	46	40
29	86	85	e66	79	---	78	105	95	49	74	44	41
30	90	85	e70	84	---	75	110	92	55	65	42	43
31	91	---	e60	82	---	82	---	89	---	67	42	---
TOTAL	2807	2723	2285	2209	2369	2665	2967	3239	1917	1548	1533	1289
MEAN	90.5	90.8	73.7	71.3	84.6	86.0	98.9	104	63.9	49.9	49.5	43.0
MAX	110	100	86	91	109	109	122	124	83	74	73	46
MIN	85	82	60	57	74	75	85	89	47	41	39	40
AC-FT	5570	5400	4530	4380	4700	5290	5890	6420	3800	3070	3040	2560

CAL YR 1986 TOTAL 72523 MEAN 199 MAX 853 MIN 60 AC-FT 143800
WTR YR 1987 TOTAL 27551 MEAN 75.5 MAX 124 MIN 39 AC-FT 54650

e Estimated

10150500 SPANISH FORK AT CASTILLA, UT

LOCATION.--Lat 40°02'59", long 111°32'50", in SE¼NE¼NW¼ sec.12, T.9 S., R.3 E., Utah County, Hydrologic Unit 16020202, on right bank 600 ft upstream from outlet of Cold Springs, 0.9 mi upstream from diversion dam of Bureau of Reclamation, 1.5 mi northwest of Castilla, and 2.8 mi downstream from Diamond Fork.

DRAINAGE AREA.--652 mi^2.

PERIOD OF RECORD.--September 1889 to December 1890, April 1903 to November 1917, May 1919 to September 1925, January 1933 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Spanish Fork" 1889-90, 1903-08.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,870 ft from topographic map. Prior to May 3, 1919, nonrecording gages at various sites 1.5 mi to 2.5 mi downstream from present site at different datums below power canal, which began diverting late in 1908. May 3, 1919, to Apr. 14, 1920, nonrecording gage. Apr. 15, 1920, to Sept. 30, 1925, and Jan. 1, 1933, to Apr. 16, 1940, water-stage recorder, at present site upstream from power canal at datum 2.00 ft lower.

REMARKS.--Records good except estimated daily discharges, which are fair. Several small diversions for irrigation above station. Flow since June 1915 includes water diverted from Strawberry Reservoir, capacity, 1,106,500 acre-ft since June 30, 1973, in Colorado River Basin via Strawberry Tunnel for irrigation in vicinity of Spanish Fork. Flow affected by mudslide and draining of resultant lake about 5 mi upstream Apr. 14 to Sept. 30, 1983.

AVERAGE DISCHARGE.--13 years (1890, 1903-14), 172 ft^3/s; 63 years (1914-17, 1919-25, 1933-87), 232 ft^3/s, 168,100 acre-ft/yr; includes transmountain diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s May 15, 1984, gage height, 11.53 ft; minimum, 5.8 ft^3/s Dec. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 847 ft^3/s Aug 6, gage height, 5.24 ft; minimum daily, 92 ft^3/s Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	149	121	121	111	111	124	429	236	503	426	169
2	163	148	123	130	116	117	130	407	271	447	419	189
3	162	147	125	119	115	120	132	278	334	397	422	217
4	150	146	125	124	117	129	135	206	377	328	518	229
5	148	146	128	121	116	146	135	180	433	325	552	227
6	146	152	130	119	114	150	133	191	478	385	566	215
7	143	155	129	111	115	149	135	204	505	458	552	199
8	142	152	128	112	117	147	136	269	502	477	449	206
9	141	142	124	101	117	166	138	339	465	478	424	223
10	140	149	105	92	118	149	136	351	439	444	407	232
11	143	137	107	97	124	136	138	382	406	405	432	234
12	139	144	113	109	124	130	141	439	409	374	443	241
13	141	139	120	113	129	136	132	455	443	321	408	242
14	143	139	124	108	154	132	128	446	483	311	418	229
15	143	139	124	102	124	131	134	459	531	315	371	189
16	143	137	130	104	122	e129	140	476	528	344	320	167
17	144	137	125	99	118	129	147	506	533	354	291	180
18	147	134	e122	98	115	129	155	473	527	341	305	204
19	145	138	e123	105	116	133	153	402	526	333	317	210
20	145	136	125	107	111	132	139	302	526	334	312	210
21	144	134	122	102	109	117	133	248	528	369	309	210
22	143	134	116	106	112	122	132	208	520	311	315	224
23	143	132	123	112	117	119	136	178	523	254	317	246
24	144	127	121	117	116	116	179	167	514	224	382	252
25	149	130	117	116	112	118	218	156	509	215	268	269
26	146	125	117	115	110	116	231	156	510	216	196	288
27	144	122	129	114	113	118	248	164	509	248	165	281
28	145	127	126	124	105	119	297	181	513	307	149	294
29	146	130	115	112	---	116	346	191	519	357	141	274
30	148	130	116	113	---	112	409	214	525	352	138	285
31	149	---	111	111	---	119	---	229	---	401	158	---
TOTAL	4518	4157	3764	3434	3287	3993	5070	9286	14122	10928	10890	6835
MEAN	146	139	121	111	117	129	169	300	471	353	351	228
MAX	163	155	130	130	154	166	409	506	533	503	566	294
MIN	139	122	105	92	105	111	124	156	236	215	138	167
AC-FT	8960	8250	7470	6810	6520	7920	10060	18420	28010	21680	21600	13560

CAL YR 1986 TOTAL 135608 MEAN 372 MAX 1190 MIN 103 AC-FT 269000
WTR YR 1987 TOTAL 80284 MEAN 220 MAX 566 MIN 92 AC-FT 159200

e Estimated

10152000 SPANISH FORK NEAR LAKESHORE, UT

LOCATION.--Lat 40°09'30", long 111°43'50", in SE¼SE¼SE¼ sec.32, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020202, on left bank 1.1 mi upstream from mouth and 2.5 mi north of Lake Shore.

DRAINAGE AREA.--675 mi^2.

PERIOD OF RECORD.--December 1903 to September 1907, March 1909 to December 1919, May 1920 to September 1925, January 1938 to current year. Published as "at Lake Shore" 1909, 1913-25.

REVISED RECORDS.--WSP 1314: 1904. WDR UT-77-1: Drainage area. WDR UT-86-1: 1985.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft from topographic map. Prior to Jan. 23, 1938, nonrecording gages at several sites about 3 mi upstream at various datums. Jan. 23, 1938 to Mar. 23, 1953, water-stage recorder at present site at different datums. Mar. 24, 1953 to Sept. 15, 1957, water-stage recorder at datum 4.0 ft higher. Apr. 25, 1984 at present site, different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by many diversions for irrigation and hydroelectric powerplant. During latter part of irrigation season, only waste and return waters pass gage. Station is below all diversions.

AVERAGE DISCHARGE.--67 years (water years 1905-07, 1910-18, 1921-25, 1939-87), 102 ft^3/s, 73,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft^3/s May 15, 1984, gage height, 11.39 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 214 ft^3/s Feb. 14; minimum daily discharge, 2.1 ft^3/s June 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e145	162	130	113	128	126	137	18	21	9.3	8.2	7.8
2	e148	158	129	137	137	138	147	62	24	9.8	8.7	9.8
3	e152	153	136	118	137	141	149	65	20	6.3	10	14
4	e150	153	e145	122	140	158	148	36	8.8	9.1	11	35
5	e147	151	143	134	136	173	152	17	7.6	10	12	33
6	e152	149	137	131	137	192	151	5.7	13	13	16	33
7	153	164	137	123	139	180	156	7.6	20	12	51	33
8	149	170	136	120	134	182	173	9.1	28	8.6	24	31
9	150	148	e139	118	136	209	148	12	31	18	30	33
10	152	152	114	e110	139	196	136	7.4	19	19	31	34
11	161	148	114	e118	144	175	121	6.0	8.4	27	31	27
12	163	152	118	127	147	169	146	5.6	4.4	49	13	20
13	165	150	113	e138	143	174	122	5.4	3.0	30	7.2	21
14	172	155	123	e138	214	167	63	5.3	2.6	15	7.9	21
15	165	155	119	e127	159	157	36	5.1	4.7	13	20	24
16	159	149	135	e134	162	160	22	5.3	6.9	16	18	23
17	155	146	125	e128	143	163	15	9.5	11	23	13	16
18	169	153	123	e120	143	170	17	28	5.1	21	19	16
19	169	162	138	125	142	170	34	26	2.5	18	17	18
20	168	148	142	e133	134	168	53	23	6.9	34	15	22
21	168	149	122	e125	128	136	45	24	12	51	29	26
22	168	148	e130	e128	128	143	27	21	5.3	50	28	34
23	166	141	125	e133	138	140	20	23	2.4	39	15	34
24	165	125	128	133	138	135	8.5	17	3.0	38	70	44
25	164	141	116	133	129	130	8.4	16	5.3	38	54	34
26	163	136	109	137	127	134	13	18	2.1	33	39	42
27	165	140	127	136	130	133	7.9	23	2.9	28	28	50
28	151	135	130	146	122	135	12	26	3.5	34	21	53
29	135	143	127	137	---	133	17	18	6.2	28	12	44
30	147	143	e126	134	---	127	11	6.7	11	17	8.9	46
31	140	---	115	131	---	135	---	10	---	11	7.2	---
TOTAL	4876	4479	3951	3987	3934	4849	2295.8	561.7	301.6	728.1	675.1	878.6
MEAN	157	149	127	129	140	156	76.5	18.1	10.1	23.5	21.8	29.3
MAX	172	170	145	146	214	209	173	65	31	51	70	53
MIN	135	125	109	110	122	126	7.9	5.1	2.1	6.3	7.2	7.8
AC-FT	9670	8880	7840	7910	7800	9620	4550	1110	598	1440	1340	1740

CAL YR 1986 TOTAL 98506.0 MEAN 270 MAX 1200 MIN 21 AC-FT 195400
WTR YR 1987 TOTAL 31516.8 MEAN 86.3 MAX 214 MIN 2.1 AC-FT 62510

e Estimated

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT

LOCATION.--Lat 40°35'48", long 111°05'48", in NE¼SW¼SE¼ sec.36, T.2 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank 500 ft upstream from bridge on State Highway 150, 1,500 ft upstream from mouth, and 9.5 mi southeast of Kamas.

DRAINAGE AREA.--24.4 mi^2.

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,480 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Slight regulation from several small reservoirs at headwaters used for storing water for release during the summer and fall. No diversions above station.

AVERAGE DISCHARGE.--24 years, 41.4 ft^3/s, 29,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 728 ft^3/s June 5, 1986, gage height, 2.98 ft; minimum recorded, 1.9 ft^3/s several days during winter of 1964-65.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 19	0100	*190	*1.86				

Minimum discharge, 2.7 ft^3/s Mar. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	e9.4	e8.7	e6.8	e6.2	4.7	131	79	39	6.7	5.4
2	15	13	e10	e9.0	e6.9	e6.2	5.3	118	76	35	6.1	5.1
3	15	13	e11	e9.0	e6.8	e6.3	6.2	97	75	31	5.8	4.9
4	13	12	e10	e9.2	e6.7	e6.5	7.4	95	75	28	5.5	5.8
5	14	12	11	e9.6	e6.6	e6.6	7.6	110	75	25	5.5	5.9
6	14	e11	9.5	e9.6	e6.8	e6.9	7.9	128	75	22	5.6	5.2
7	15	e11	8.4	e9.2	e6.5	e6.8	8.6	139	77	19	6.0	5.2
8	16	e11	e8.0	e8.2	e6.5	e6.7	9.3	134	74	18	5.7	5.1
9	16	e11	e8.5	e7.4	e6.4	e6.6	11	126	66	17	5.2	4.6
10	16	e11	e7.0	e7.3	e6.4	e6.5	12	133	60	16	4.9	4.6
11	16	e12	e8.0	e7.6	e6.4	e6.7	e15	127	56	16	5.0	4.6
12	15	e12	e8.8	e8.4	e6.6	e6.5	e14	129	51	16	5.1	4.7
13	14	e12	9.9	e8.3	e6.9	e6.9	e14	149	47	15	5.3	4.6
14	13	e11	e9.7	e7.8	e7.0	e5.7	e15	153	44	14	8.6	5.1
15	13	e11	e9.5	e7.6	e7.0	e6.4	e16	153	41	13	9.4	5.5
16	12	e11	e10	e7.3	e7.2	e6.0	30	155	39	12	8.4	5.2
17	12	10	e9.5	e6.9	e7.0	e6.1	52	161	36	12	7.3	4.9
18	15	e9.6	e9.0	e7.3	e6.8	e5.9	59	162	34	12	6.4	4.6
19	17	12	e9.4	e7.6	e6.7	e5.8	58	181	31	10	5.9	4.6
20	16	11	e9.4	e7.2	e6.6	e5.5	48	156	37	9.4	5.9	4.6
21	15	11	e9.0	e6.8	e6.8	e5.1	45	136	58	13	7.0	4.3
22	14	e10	e8.7	e7.2	e7.2	e5.4	59	112	56	14	8.2	4.3
23	15	e10	e9.0	e7.5	e7.0	4.5	76	99	54	10	7.0	4.3
24	14	e9.5	e9.1	e7.3	e6.8	4.4	94	90	52	8.9	8.6	4.1
25	14	e10	e9.1	e7.0	e6.7	4.3	102	85	50	8.0	8.9	4.1
26	14	e9.6	e9.4	e6.8	e6.7	4.3	102	84	48	7.6	7.6	4.1
27	14	e10	e9.7	e6.8	e6.4	4.1	107	79	45	7.6	6.7	4.1
28	15	e11	e9.9	e6.7	e6.1	3.9	126	78	44	7.6	6.1	4.1
29	14	12	e9.4	e6.9	---	4.0	139	78	45	7.6	5.8	4.1
30	15	10	e9.0	e7.0	---	5.0	141	77	42	7.6	5.5	4.0
31	15	---	e8.4	e7.0	---	4.4	---	77	---	7.4	5.2	---
TOTAL	449	333.7	286.7	240.2	188.3	177.2	1392.0	3732	1642	478.7	200.9	141.7
MEAN	14.5	11.1	9.25	7.75	6.72	5.72	46.4	120	54.7	15.4	6.48	4.72
MAX	17	14	11	9.6	7.2	6.9	141	181	79	39	9.4	5.9
MIN	12	9.5	7.0	6.7	6.1	3.9	4.7	77	31	7.4	4.9	4.0
AC-FT	891	662	569	476	373	351	2760	7400	3260	950	398	281

CAL YR 1986	TOTAL	24997.9	MEAN	68.5	MAX	539	MIN	7.0	AC-FT	49580
WTR YR 1987	TOTAL	9262.3	MEAN	25.4	MAX	181	MIN	3.9	AC-FT	18370

e Estimated

10154200 PROVO RIVER NEAR WOODLAND, UT

LOCATION.--Lat 40°33'28", long 111°10'05", in NE¼NW¼SE¼ sec.17, T.3 S., R.7 E., Summit County, Hydrologic Unit 16020203, on right bank on south side of State Highway 35, 0.3 mi downstream from Twin Pine Bridge, 1.6 mi downstream from South Fork and 3.5 mi southeast of Woodland.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--August 1963 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Duchesne Tunnel, transmountain diversion. Flow also affected by some small irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on these is available from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--24 years, 228 ft³/s, 165,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s June 7, 1986, from rating curve extended above 2,000 ft³/s on the basis of slope-area measurement of peak flow, gage height, 7.40 ft; minimum, 22 ft³/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft³/s May 19, gage height, 4.65 ft; minimum, 31 ft³/s Mar. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	114	69	71	73	67	73	875	510	204	105	70
2	114	111	80	74	74	67	81	829	487	176	120	68
3	111	111	83	75	73	67	87	657	490	168	114	69
4	104	118	80	77	73	70	94	636	524	160	105	76
5	106	113	84	82	71	72	95	724	553	153	101	73
6	107	104	83	83	72	74	104	849	549	145	101	69
7	110	e100	78	81	71	73	108	974	561	138	99	69
8	115	e97	74	74	71	73	120	980	571	132	90	68
9	115	e94	69	71	71	73	124	910	535	128	85	66
10	115	e97	51	71	71	71	126	914	475	123	83	64
11	116	e98	61	77	71	72	135	891	439	129	83	65
12	113	e97	70	82	e74	69	125	911	425	127	79	62
13	118	e93	77	80	e78	75	114	974	401	118	68	62
14	110	e90	75	72	e79	73	130	968	421	111	80	63
15	110	e91	74	70	e79	72	174	967	397	110	83	66
16	117	e87	78	67	e82	71	226	963	393	109	84	64
17	109	e83	73	63	e81	72	279	983	341	125	77	65
18	141	e81	69	67	e79	70	325	1070	312	130	73	63
19	131	e88	73	72	e77	70	321	1190	292	113	71	62
20	126	e78	73	69	e75	68	260	1040	279	109	69	62
21	119	e75	70	68	e79	63	247	937	267	139	75	61
22	117	e74	68	71	e85	68	301	808	266	149	84	60
23	119	e75	69	76	e80	66	408	700	252	116	76	59
24	116	e71	70	75	e79	63	514	632	242	107	79	63
25	115	e76	70	73	e82	64	557	609	231	102	81	61
26	113	e72	75	73	e77	62	574	602	220	103	75	60
27	113	77	77	73	70	64	580	553	212	118	85	58
28	116	84	79	74	66	62	714	520	206	114	83	57
29	114	87	75	75	---	61	801	507	233	121	77	57
30	121	81	73	75	---	60	859	476	221	118	75	56
31	119	---	67	74	---	65	---	472	---	113	71	---
TOTAL	3574	2717	2267	2285	2113	2117	8656	25121	11305	4008	2631	1918
MEAN	115	90.6	73.1	73.7	75.5	68.3	289	810	377	129	84.9	63.9
MAX	141	118	84	83	85	75	859	1190	571	204	120	76
MIN	104	71	51	63	66	60	73	472	206	102	68	56
AC-FT	7090	5390	4500	4530	4190	4200	17170	49830	22420	7950	5220	3800

CAL YR 1986 TOTAL 128098 MEAN 351 MAX 2280 MIN 51 AC-FT 254100
WTR YR 1987 TOTAL 68712 MEAN 188 MAX 1190 MIN 51 AC-FT 136300

e Estimated

10155000 PROVO RIVER NEAR HAILSTONE, UT

LOCATION.--Lat 40°36'03", long 111°21'35", in SW¼NE¼SE¼ sec.34, T.2 S., R.5 E., Wasatch County, Hydrologic Unit 16020203, on right bank 3 mi upstream from Ross Creek and Hailstone.

DRAINAGE AREA.--233 mi^2.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,100 ft from river-profile map. Prior to Nov. 20, 1964 at datum 1.00 6 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Records include flow of Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Flow also affected by irrigation diversions above station and by storage in several small reservoirs at headwaters. Information on flow of Weber-Provo diversion canal, Duchesne Tunnel, and capacities of small reservoirs is available from Provo River Water Commissioner's Report, (total capacity, 10,080 acre-ft).

AVERAGE DISCHARGE.--34 years (1954-87) 236 ft^3/s, 207,200 acre-ft/yr, since completion of Duchesne Tunnel.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft^3/s June 7, 1986, from rating curve extended above 2,500 ft^3/s; gage height, 9.91 ft from floodmarks; minimum, 11 ft^3/s Aug. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft^3/s May 19, gage height 5.71 ft; minimum discharge, 45 ft^3/s Aug. 13, Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	142	106	e94	e98	101	108	1090	507	183	93	68
2	151	140	114	e96	e99	97	116	1050	477	151	102	64
3	152	138	112	e96	e100	99	123	804	474	140	102	61
4	142	135	109	e97	e97	112	132	715	510	134	86	66
5	143	123	110	e101	e93	123	135	790	548	126	80	68
6	143	124	110	e101	e92	122	139	955	578	124	80	65
7	144	119	105	e98	e93	118	142	1100	591	119	80	62
8	148	119	99	e96	e94	116	164	1150	609	107	72	61
9	149	115	e93	e94	e94	117	172	1080	559	107	65	61
10	147	128	e77	e94	e94	109	212	1090	475	101	62	57
11	145	120	e85	e95	e94	110	231	1060	429	105	61	58
12	138	132	e92	e98	e98	104	229	1070	410	98	57	57
13	133	119	e96	e99	e103	115	204	1130	380	92	51	55
14	134	123	e94	e91	e110	108	216	1140	382	80	73	57
15	131	122	e95	e87	e113	107	256	1140	358	77	80	61
16	130	118	e99	e84	e110	108	313	1150	363	77	85	62
17	131	121	e96	e80	e103	110	353	1150	316	85	74	60
18	149	117	e94	e83	98	106	392	1220	283	94	64	60
19	155	130	e98	e89	95	105	394	1210	276	81	63	59
20	161	120	e100	e91	94	101	342	1060	250	74	65	58
21	152	123	e97	e88	101	97	352	972	238	130	67	58
22	149	115	e94	e92	106	100	392	841	235	161	83	57
23	150	117	e96	e98	97	100	477	732	226	109	73	56
24	147	111	e96	e99	93	96	587	646	211	91	79	57
25	145	120	e96	e95	95	96	592	627	203	82	85	57
26	143	103	e98	e94	98	94	600	644	192	76	73	56
27	143	107	e101	e96	99	98	607	615	179	92	77	53
28	143	110	e103	e98	100	94	838	557	168	105	80	46
29	140	115	e97	e98	---	98	980	515	196	113	76	47
30	145	112	e93	e99	---	101	1030	500	201	112	73	49
31	148	---	e89	e98	---	100	---	483	---	103	69	---
TOTAL	4474	3638	3944	2919	2761	3262	10828	28286	10834	3329	2330	1756
MEAN	144	121	98.2	94.2	98.6	105	361	912	361	107	75.2	58.5
MAX	161	142	114	101	113	123	1030	1220	609	183	102	68
MIN	130	103	77	80	92	94	108	483	168	74	51	46
AC-FT	8870	7220	6040	5790	5480	6470	21480	56110	21490	6600	4620	3480

CAL YR 1986 TOTAL 150692 MEAN 413 MAX 2700 MIN 77 AC-FT 298900
WTR YR 1987 TOTAL 77461 MEAN 212 MAX 1220 MIN 46 AC-FT 153600

e Estimated

10159500 PROVO RIVER BELOW DEER CREEK DAM, UT

LOCATION.--Lat 40°24'12", long 111°31'44", in NE¼NE¼NE¼ sec.7, T.5 S., R.4 E., Wasatch County, Hydrologic Unit 16020203, on right bank 200 ft upstream from Deer Creek, 1,000 ft downstream from Deer Creek Dam, and 4.1 mi northeast of Vivian Park.

DRAINAGE AREA.--547 mi^2.

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area. WDR UT-81-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,270 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Deer Creek Reservoir and by small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow also affected by irrigation diversions above station and water diverted to Provo River by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Information is available on these stations from the Provo River Water Commissioner's Report.

AVERAGE DISCHARGE.--34 years, 380 ft^3/s, 275,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft^3/s June 3, 1983, gage height, 9.11 ft; no flow Feb. 2, 3, 1957, Nov. 12, 19, 1961, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 852 ft^3/s May 20, 21; minimum daily, 89 ft^3/s Feb. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e480	357	355	105	95	106	123	444	569	562	366	353
2	e470	357	355	104	91	104	128	454	587	554	359	361
3	e400	357	351	105	92	116	116	461	597	519	358	360
4	e365	281	356	105	89	117	109	467	595	499	357	335
5	e335	364	356	106	93	118	112	474	603	516	368	355
6	e335	366	356	105	94	127	115	481	594	510	365	358
7	e335	362	356	105	97	123	111	486	591	505	346	348
8	329	362	355	106	95	115	111	622	564	517	350	349
9	319	359	355	102	95	115	125	710	545	518	332	348
10	324	359	360	101	96	118	125	715	533	514	337	356
11	299	373	365	100	96	119	126	719	538	493	337	333
12	295	362	366	98	97	115	126	720	575	506	340	267
13	295	357	366	96	98	115	126	722	580	501	361	225
14	295	355	366	97	98	117	133	758	594	502	360	249
15	297	355	366	98	97	115	129	781	596	456	347	242
16	297	353	366	98	97	113	135	791	607	425	321	253
17	297	359	366	98	101	113	143	794	608	426	304	258
18	295	359	322	98	99	112	156	834	598	418	294	263
19	292	357	292	98	103	112	181	845	627	406	297	259
20	292	357	289	98	105	120	195	852	615	416	321	256
21	343	357	285	98	105	120	235	852	593	415	319	252
22	364	357	282	95	107	117	317	840	574	347	315	231
23	364	355	279	96	107	117	386	829	562	345	282	220
24	362	355	276	99	112	117	392	817	573	339	280	219
25	359	355	273	103	112	118	398	717	618	339	279	218
26	359	355	270	100	113	122	442	660	627	338	271	216
27	358	355	267	96	112	125	452	614	614	341	276	214
28	357	355	263	95	107	126	426	576	605	326	316	214
29	359	355	258	94	---	126	431	539	592	343	317	215
30	359	355	256	92	---	125	456	541	572	350	328	214
31	362	---	151	93	---	121	---	550	---	347	339	---
TOTAL	10592	10665	9879	3084	2803	3644	6560	20665	17646	13593	10142	8341
MEAN	342	355	319	99.5	100	118	219	667	588	438	327	278
MAX	480	373	366	106	113	127	456	852	627	562	368	361
MIN	292	281	151	92	89	104	109	444	533	326	271	214
AC-FT	21010	21150	19590	6120	5560	7230	13010	40990	35000	26960	20120	16540

CAL YR 1986 TOTAL 31136 MEAN 338 MAX 480 MIN 151 AC-FT 61760
WTR YR 1987 TOTAL 117614 MEAN 322 MAX 852 MIN 89 AC-FT 233300

e Estimated

10163000 PROVO RIVER AT PROVO, UT

LOCATION.--Lat 40°14'16", long°41'55", in NE¼NW¼SE¼ sec.3, T.7 S., R.2 E., Utah County, Hydrologic Unit 16020203, on left bank 1,300 ft downstream from bridge on State Highway 114, 2.1 mi west of Provo, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--673 mi^2.

PERIOD OF RECORD.--May 1903 to June 1905, May 1933 to September 1934, January 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "at San Pedro, Los Angeles and Salt Lake Railroad bridge, near Provo" 1903-04, and as "at Rio Grande Western Railroad bridge, near Provo" 1905.

REVISED RECORDS.--WSP 1564: 1904, 1934. WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,510 ft from topographic map. May 1903 to June 1905, nonrecording gages at site 0.8 mi upstream at different datums. May 1933 to September 1934, nonrecording gage at present site at different datum. January 1937 to November 1938, water-stage recorder at site 1,000 ft upstream at different datum. November 1938 to August 1957, water-stage recorder at present site at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges, records good. Station is below all diversions. At time entire flow is diverted above station for irrigation. Flow regulated by Deer Creek Reservoir and small lakes at headwaters that serve as reservoirs. Small transmountain diversions from Strawberry River drain into Daniels Creek. Flow affected by Weber-Provo diversion canal and Duchesne Tunnel, a transmountain diversion. Certain diversions for industrial use which reach Provo Bay, an arm of Utah Lake, are made above station; however, part of this flow is used for irrigation.

AVERAGE DISCHARGE.--52 years, 214 ft^3/s, 155,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,520 ft^3/s May 6, 1952, gage height, 6.37 ft; no flow for several periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 693 ft^3/s May 21, gage height, 5.23 ft; minimum, 4.5 ft^3/s July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	431	411	179	185	179	167	95	112	20	20	49
2	429	427	413	171	181	174	170	87	102	15	19	47
3	404	424	407	168	179	169	167	68	102	11	18	54
4	396	355	413	175	181	179	156	58	82	15	17	63
5	388	423	421	192	177	181	158	52	70	16	20	75
6	388	449	443	196	175	188	162	45	67	12	18	90
7	356	468	429	188	175	193	159	40	58	13	17	84
8	362	471	422	182	173	185	153	71	55	14	18	85
9	399	457	419	175	171	240	158	187	46	9.9	23	85
10	380	455	409	174	172	216	160	182	40	8.8	26	90
11	371	447	414	171	170	205	163	217	40	11	22	92
12	362	430	409	169	170	189	164	248	43	10	21	74
13	357	453	409	168	181	193	157	275	37	12	29	51
14	347	432	427	167	265	209	144	308	34	11	49	60
15	359	418	427	165	233	199	124	382	31	10	66	65
16	377	425	442	155	216	197	115	439	32	5.9	68	68
17	397	432	438	152	206	197	105	461	31	11	66	68
18	391	436	408	148	199	189	91	554	27	17	61	61
19	378	455	338	147	196	186	94	653	36	22	57	53
20	373	442	354	144	191	182	93	666	45	23	52	52
21	400	441	343	149	189	183	93	681	47	75	47	45
22	451	436	338	155	186	177	98	662	28	123	47	33
23	457	426	326	160	187	174	107	617	21	78	34	27
24	464	425	335	165	193	175	106	600	26	65	87	28
25	446	425	332	175	198	173	93	516	31	53	99	29
26	440	420	331	182	195	173	104	375	29	51	96	31
27	439	419	333	189	191	178	137	335	27	42	82	28
28	432	419	331	225	183	179	104	257	29	37	87	25
29	429	418	320	211	---	180	88	173	33	32	73	25
30	435	412	321	193	---	177	86	133	24	29	58	28
31	438	---	270	187	---	172	---	112	---	23	52	---
TOTAL	12485	12971	11833	5377	5318	5791	3876	9549	1385	875.6	1450	1665
MEAN	403	432	382	173	190	187	129	308	46.2	28.2	46.8	55.5
MAX	464	471	443	225	265	240	170	681	112	123	99	92
MIN	347	355	270	144	170	169	86	40	21	5.9	17	25
AC-FT	24760	25730	23470	10670	10550	11490	7690	18940	2750	1740	2880	3300

CAL YR 1986 TOTAL 221387.0 MEAN 607 MAX 1690 MIN 25 AC-FT 439100
WTR YR 1987 TOTAL 72575.6 MEAN 199 MAX 681 MIN 5.9 AC-FT 144000

10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT

LOCATION.--Lat 40°26'52", long 111°40'53", in SE¼NW¼NE¼ sec.26, T.4 S., R.2 E., Utah County, Hydrologic Unit 16020201, on left bank 600 ft downstream from Rock Creek, 1,000 ft upstream from intake for upper powerplant of Utah Power & Light Co., 4.0 mi upstream from mouth of canyon, and 6.7 mi northeast of American Fork.

DRAINAGE AREA.--51.1 mi^2.

PERIOD OF RECORD.--January 1927 to current year. Monthly discharge only January 1927 to September 1945, published in WSP 1314.

REVISED RECORDS.--WSP 1634: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft from topographic map. Prior to Sept. 8, 1965, at same site at different datum. Sept. 8, 1965 to Nov. 20, 1967, at site 300 ft upstream.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Silver Lake Flat Reservoir (constructed 1971) and Tibble Reservoir; total capacity, 1,260 acre-ft.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--60 years, 57.3 ft^3/s, 41,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred July 30, 1953, gage height, 9.20 ft, from floodmark; minimum, 1.1 ft^3/s Dec. 20, 1976 (result of freezeup).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft^3/s June 9, gage height, 6.77 ft; minimum daily, 21 ft^3/s many days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	36	32	28	26	24	26	85	69	51	30	23
2	41	35	32	28	26	25	27	80	71	49	29	23
3	41	35	34	28	26	25	29	70	72	49	29	23
4	39	35	33	28	26	25	31	65	75	48	29	24
5	39	34	33	27	26	25	31	65	80	47	28	23
6	40	34	33	27	26	25	32	69	83	46	28	22
7	43	34	32	27	25	25	32	73	88	46	28	23
8	43	34	32	26	25	26	32	77	83	45	28	23
9	42	34	31	26	25	26	33	79	93	44	27	22
10	43	34	28	25	25	26	34	83	81	44	26	22
11	43	33	27	26	25	26	36	90	77	43	26	22
12	42	34	27	27	25	26	36	96	76	42	25	22
13	43	34	28	27	26	26	34	110	73	41	26	22
14	41	34	29	26	26	26	34	119	69	40	27	21
15	40	34	30	26	25	26	38	118	68	40	27	22
16	40	34	30	27	25	26	45	125	66	39	26	21
17	40	33	30	26	25	26	51	132	61	40	25	21
18	41	34	30	26	25	25	54	133	58	39	25	21
19	40	37	29	26	25	25	51	122	55	37	25	21
20	39	35	29	26	24	25	45	113	52	39	24	21
21	38	34	28	26	24	24	43	103	50	42	24	21
22	38	34	28	26	24	24	47	87	49	37	24	21
23	37	33	28	26	24	24	53	81	48	35	25	21
24	37	32	28	25	25	25	63	78	51	35	27	21
25	36	32	28	25	25	24	70	76	53	33	25	21
26	36	32	28	25	25	25	75	76	52	33	24	21
27	36	32	28	25	24	25	75	73	52	33	24	21
28	36	32	28	26	24	25	78	71	51	32	23	21
29	36	32	28	26	---	25	85	68	52	31	23	21
30	36	32	28	26	---	24	89	66	51	30	23	21
31	36	---	28	26	---	25	---	66	---	30	23	---
TOTAL	1222	1012	917	815	702	779	1409	2749	1959	1240	803	652
MEAN	39.4	33.7	29.6	26.3	25.1	25.1	47.0	88.7	65.3	40.0	25.9	21.7
MAX	43	37	34	28	26	26	89	133	93	51	30	24
MIN	36	32	27	25	24	24	26	65	48	30	23	21
AC-FT	2420	2010	1820	1620	1390	1550	2790	5450	3890	2460	1590	1290

CAL YR 1986 TOTAL 40008 MEAN 110 MAX 547 MIN 19 AC-FT 79360
WTR YR 1987 TOTAL 14259 MEAN 39.1 MAX 133 MIN 21 AC-FT 28280

10166430 WEST CANYON NEAR CEDAR FORT, UT

LOCATION.--Lat 40°24'24", long 112°06'03", in SW¼SE¼SE¼ sec.6, T.5 S., R.2 W., Utah County, on left bank 70 ft upstream from road bridge, 160 ft downstream from Left Fork, 750 ft upstream from a right bank diversion, and 5.3 mi north of Cedar Fort.

DRAINAGE AREA.--26.8 mi².

PERIOD OF RECORD.--July 1965 to October 1975, October 1986 to September 1987.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft from topographic map.

AVERAGE DISCHARGE.--11 years, 4.44 ft³/s, 3,220 acre-ft/yr.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,660 ft³/s Aug. 28, 1971, gage height, 7.50 ft from slope-area measurement; minimum, 0.02 ft³/s Jan. 17, 22, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23 ft³/s May 29, gage height, 1.61 ft; minimum daily, 1.2 ft³/s many days in December, January and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.8	e3.5	e2.0	e1.3	1.5	e1.5	1.5	14	6.8	e5.3	2.9	e1.8
2	e3.8	e3.4	e1.9	e1.2	1.5	e1.6	1.5	14	6.8	e5.2	2.9	e1.8
3	e3.8	e3.4	e1.8	e1.2	1.4	1.6	1.5	12	7.2	e5.0	2.7	e1.8
4	e3.8	e3.4	e1.6	e1.2	1.4	1.6	1.5	11	6.9	e4.8	2.4	e1.8
5	e3.8	e3.4	1.3	e1.2	1.6	1.6	1.5	9.9	7.1	e4.7	2.2	e1.8
6	e3.8	e3.4	1.3	e1.2	1.5	1.6	1.6	11	7.4	e4.5	2.0	e1.8
7	e3.8	e3.4	1.2	e1.2	1.5	1.6	1.6	11	7.4	e4.4	1.9	e1.7
8	e3.8	e3.3	e1.2	e1.2	1.5	1.7	1.6	11	6.8	e4.5	1.9	e1.7
9	e3.8	e3.3	e1.2	e1.3	1.5	1.7	1.6	11	6.9	e4.4	1.9	e1.7
10	e3.8	e3.3	e1.2	e1.3	1.6	1.5	1.7	11	6.6	e4.3	1.9	e1.7
11	e3.7	e3.3	e1.3	e1.3	1.8	1.6	1.7	12	6.1	e4.2	e2.1	e1.7
12	e3.7	e3.3	e1.3	e1.4	1.8	1.6	1.8	13	6.0	e4.1	e2.0	e1.6
13	e3.7	e3.2	e1.3	e1.4	1.8	1.6	1.8	14	5.9	e3.9	e2.0	e1.6
14	e3.7	e3.2	e1.3	e1.4	1.8	1.6	1.9	14	5.4	e3.8	e2.0	e1.6
15	e3.7	e3.1	1.3	e1.4	1.9	1.6	2.0	14	4.7	e3.7	e2.0	e1.5
16	e3.7	e3.1	1.3	e1.4	1.7	1.5	2.4	17	4.8	e3.6	e2.0	e1.5
17	e3.7	e3.0	1.3	e1.4	1.7	1.5	3.5	16	4.6	e3.5	e2.0	e1.5
18	e3.6	e3.0	1.3	e1.4	1.6	1.5	5.1	15	4.3	e3.5	e2.0	e1.5
19	e3.6	e2.9	1.3	e1.5	1.5	1.4	6.4	16	4.7	e3.5	e2.0	e1.5
20	e3.6	e2.9	1.3	e1.5	e1.5	1.4	6.7	14	5.4	e3.4	e1.9	e1.5
21	e3.6	e2.8	1.2	e1.6	e1.5	e1.4	6.5	10	5.3	e3.4	e1.9	e1.4
22	e3.6	e2.8	e1.2	e1.6	e1.5	e1.4	8.2	8.2	5.0	e3.3	e1.9	e1.4
23	e3.6	e2.7	e1.3	1.6	e1.5	e1.4	8.9	8.0	5.2	e3.2	e1.9	e1.4
24	e3.6	e2.6	e1.3	1.6	e1.5	1.4	7.5	8.1	5.1	e3.1	e1.9	e1.4
25	e3.6	e2.6	e1.3	1.7	e1.4	1.4	9.3	8.8	5.4	e3.1	e1.9	e1.3
26	e3.5	e2.5	e1.3	1.7	e1.4	1.4	12	9.7	5.6	e3.1	e1.9	e1.3
27	e3.5	e2.4	e1.4	1.6	e1.4	1.5	14	8.5	5.4	e3.0	e1.9	e1.3
28	e3.5	e2.4	e1.4	1.5	e1.5	1.5	16	7.5	e5.4	e3.0	e1.8	e1.2
29	e3.5	e2.2	e1.3	1.4	---	e1.5	18	10	e5.4	e3.0	e1.8	e1.2
30	e3.5	e2.1	e1.3	1.4	---	e1.5	18	7.8	e5.3	e3.1	e1.8	e1.2
31	e3.5	---	e1.3	1.4	---	e1.5	---	7.8	---	e3.1	e1.8	---
TOTAL	113.7	89.9	42.0	43.5	43.8	47.2	167.3	355.3	174.9	110.7	63.2	46.2
MEAN	3.67	3.00	1.35	1.40	1.56	1.52	5.58	11.5	5.83	3.83	2.04	1.54
MAX	3.8	3.5	2.0	1.7	1.9	1.7	18	17	7.4	5.3	2.9	1.8
MIN	3.5	2.1	1.2	1.2	1.4	1.4	1.5	7.5	4.3	3.0	1.8	1.2
AC-FT	226	178	83	86	87	94	332	705	347	235	125	92

WTR YR 1987 TOTAL 1305.7 MEAN 3.58 MAX 18 MIN 1.2 AC-FT 2590

e Estimated

10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT

LOCATION.--Lat 40°26'38", long 111°55'17", in NW¼SE¼NW¼ sec.26, T.4 S., R.1 W., Salt Lake County, Hydrologic Unit 16020201, at narrows 5.5 mi northwest of Lehi and 7.5 mi downstream from Utah Lake.

DRAINAGE AREA.--3,010 mi^2, including 255 mi^2 in closed basin in Cedar Valley.

PERIOD OF RECORD.--May to December 1904, July 1913 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,469.44 ft NGVD of 1929. Prior to May 16, 1920, nonrecording gage and May 16, 1920, to Sept. 30, 1934, water-stage recorder, at outlet of Utah Lake 7.5 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Figures given herein represent combined flow of Jordan River, Utah and Salt Lake Canal, and East Jordan Canal. In addition to the combined flow indicated below, 29,320 acre-ft of Utah Lake water bypassed the Jordan River narrows in the Utah Lake Distributing Company Canal. Flow may be regulated by gates and pumps at outlet of Utah Lake, pumps at Pelican Point, and diversion dam at narrows.

COOPERATION.--Records provided by the Jordan River Distribution System.

AVERAGE DISCHARGE.--74 years (1913-87), 430 ft^3/s, 311,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,030 ft^3/s June 20, 1984; no flow at times most years when gates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1060	1120	1120	1220	1170	1140	1160	672	439	583	588	503
2	1110	1120	1140	1120	1170	1150	1140	618	423	589	593	506
3	1140	1130	1160	1180	1070	1150	1150	616	488	589	592	472
4	1150	1130	1180	1190	1160	1160	1150	624	498	571	589	472
5	1150	1160	1180	1140	1130	1170	1150	627	526	570	584	475
6	1150	1130	1200	1150	1140	1160	1130	629	552	545	586	472
7	1150	1130	1200	1150	1130	1140	1140	655	556	559	579	481
8	1140	1150	1190	1150	1130	1140	1130	674	537	591	582	460
9	1120	1150	1150	1210	1140	1140	1120	668	515	583	574	447
10	1120	1170	1130	1200	1140	1140	1130	666	529	576	542	436
11	1090	1170	1220	1160	1140	1150	1090	665	531	565	552	444
12	1110	1180	1230	1180	1140	1160	1070	665	529	587	559	439
13	1140	1170	1220	1160	1140	1180	1140	652	531	590	560	434
14	1110	1180	1220	1150	1160	1170	53	529	550	587	561	438
15	1140	1300	1220	1160	1160	1130	103	571	552	587	548	439
16	1120	1280	1200	1150	1110	1160	844	569	505	589	523	428
17	1130	1270	1210	1140	1140	1110	513	554	561	572	526	436
18	1100	1220	1210	1140	1160	1150	634	504	579	542	524	442
19	1100	1210	1220	1140	1080	1140	792	475	572	544	525	440
20	1100	1220	1210	1140	1130	1090	100	475	629	533	515	443
21	1110	1180	1210	1150	1160	1140	287	475	653	535	511	434
22	1120	1160	1220	1160	1160	1180	114	475	558	494	512	398
23	1130	1220	1200	1150	1160	1150	326	472	629	476	494	386
24	1120	1180	1200	1150	1170	1130	400	479	612	470	473	382
25	1130	1180	1200	1150	1150	1130	455	481	600	495	469	385
26	1130	1170	1190	1160	1120	1110	471	487	600	553	470	383
27	1130	1170	1190	1170	1100	1050	447	479	596	541	467	383
28	1130	1160	1210	1190	1140	1100	529	458	600	518	463	394
29	1140	1160	1180	1120	---	1080	567	456	597	527	472	384
30	1130	1160	1180	1180	---	1160	605	455	595	554	519	373
31	1130	---	1220	1180	---	1150	---	458	---	599	511	---
TOTAL	34830	35330	37010	35990	31900	35310	21940	17283	16642	17204	16563	13009
MEAN	1124	1178	1194	1161	1139	1139	731	558	555	555	534	434
MAX	1150	1300	1230	1220	1170	1180	1160	674	653	599	593	506
MIN	1060	1120	1120	1120	1070	1050	53	455	423	470	463	373
AC-FT	69090	70080	73410	71390	63270	70040	43520	34280	33010	34120	32850	25800

CAL YR 1986 TOTAL 107170 MEAN 1165 MAX 1300 MIN 1060 AC-FT 212600
WTR YR 1987 TOTAL 313011 MEAN 858 MAX 1300 MIN 53 AC-FT 620900

10168300 TAILRACE AT STAIRS PLANT NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°37'26", long 111°45'05", in NW¼SE¼SW¼ sec. 20, T.2 S., R.2 E., Salt Lake County, Hydrologic Unit 16120204 on left bank at Stairs plant, 14 mi southeast of Salt Lake City.

PERIOD OF RECORD.--January 1925 to current year. Prior to 1986, not published, records available from Utah Power & Light Co.

GAGE.--Water-stage recorder. Altitude of gage is 5,460 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good.

COOPERATION.--Records collected by Utah Power & Light Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft^3/s July 1, 1954; no flow many days.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 53 ft^3/s May 6, 30, 31, June 1-6; minimum daily discharge, no flow Sept. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	37	30	21	21	20	25	51	53	39	35	.07
2	47	35	29	20	21	20	27	51	53	37	36	.00
3	47	36	29	20	21	21	31	51	53	35	35	.31
4	46	32	29	21	20	22	35	48	53	34	34	.69
5	45	27	29	21	20	23	34	49	53	34	34	.26
6	45	27	29	21	20	24	34	53	53	33	33	.29
7	46	26	28	21	21	25	35	29	52	33	33	.59
8	45	23	26	21	21	25	36	.88	52	39	32	.13
9	43	24	25	17	21	25	36	.69	52	42	32	.11
10	29	25	19	18	21	25	38	.49	52	43	32	6.2
11	33	25	21	18	21	24	40	.38	52	44	31	21
12	3[illegible]	25	24	18	19	24	41	.37	52	42	31	20
13	34	25	24	18	21	25	37	.37	52	40	30	20
14	26	25	24	16	22	25	36	.36	52	39	34	20
15	37	25	23	15	21	25	3[illegible]	.35	52	39	44	20
16	37	25	23	16	21	25	[illegible]4	.34	52	39	38	20
17	36	25	23	16	21	25	50	.34	52	42	29	20
18	38	25	23	16	21	25	49	.33	52	41	31	20
19	40	27	23	18	21	23	45	.32	52	40	32	19
20	41	26	23	17	21	24	52	.31	51	38	32	19
21	42	26	23	17	18	20	50	.43	49	43	1[illegible]	19
22	42	27	22	18	20	23	52	20	49	48	[illegible]	18
23	41	26	22	18	21	23	52	52	47	39	.64	17
24	34	28	22	18	21	23	51	52	45	35	.62	18
25	40	30	22	19	21	22	51	52	44	32	.83	18
26	39	30	21	20	20	22	46	52	43	30	.69	18
27	38	30	21	20	20	23	46	52	47	28	.56	17
28	38	30	21	19	17	23	52	52	45	31	.48	18
29	37	30	21	21	---	23	50	52	43	38	.40	17
30	37	30	21	21	---	22	52	53	40	40	.32	17
31	37	---	20	21	---	23	---	53	---	34	.21	---
TOTAL	1221	832	740	581	574	722	1266	827.96	1497	1171	692.41	384.65
MEAN	39.4	27.[illegible]	23.9	18.7	20.5	23.3	42.2	26.7	49.9	37.8	22.3	12.8
MAX	47	3[illegible]	30	21	22	25	52	53	53	48	44	21
MIN	26	23	19	15	17	20	25	.31	40	28	.21	.00
AC-FT	2420	1650	1470	1150	1140	1430	2510	1640	2970	2320	1370	763

CAL YR 1986 TOTAL 10270.90 MEAN 28.1 MAX 53 MIN .00 AC-FT 20370
WTR YR 1987 TOTAL 10508.99 MEAN 28.8 MAX 53 MIN .00 AC-FT 20840

10170500 SURPLUS CANAL AT SALT LAKE CITY, UT

LOCATION.--Lat 40°43'37", long 111°55'33", in SE¼SW¼SW¼ sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, near right bank on upstream side of diversion dam at head of canal, and 250 ft downstream from highway bridge over Jordan River on 2100 South Street.

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,223.93 ft NGVD of 1929. Prior to Oct. 22, 1952, at site 350 ft downstream, and Oct. 22, 1952 to Sept. 30, 1966, at site 400 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by diversion structure at station. Canal was built to bypass floodwater of Jordan River around Salt Lake City residential and industrial area (see station 10170490 for records of combined flow of Jordan River and Surplus Canal). Several diversions for irrigation and waterfowl ponds below station.

AVERAGE DISCHARGE.--44 years, 391 ft^3/s, 283,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,410 ft^3/s June 1, 1984, gage height, 8.31 ft, present datum; no flow Jan. 21 to Feb. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,650 ft^3/s Mar. 9, gage height, 3.48 ft; minimum daily, 203 ft^3/s Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	1440	1460	1350	1380	1330	1300	666	421	372	214	330
2	1430	1460	1470	1360	1370	1340	1300	942	346	399	203	310
3	1440	1420	1490	1360	1360	1330	1310	739	277	360	285	362
4	1370	1420	1490	1380	1350	1310	1320	679	291	362	345	348
5	1360	1420	1490	1490	1310	1320	1310	649	298	353	351	312
6	1380	1440	1510	1450	1310	1320	1340	621	349	336	247	289
7	1380	1470	1500	1410	1310	1370	1350	630	497	331	227	299
8	1360	1450	1520	1380	1310	1370	1370	673	517	377	243	303
9	1310	1450	1460	1360	1310	1480	1300	720	443	441	263	327
10	1300	1410	1460	1370	1310	1360	1290	738	470	424	253	395
11	1260	1420	1530	1370	1300	1350	1300	748	453	437	255	392
12	1300	1410	1440	1350	1310	1330	1210	691	385	400	265	292
13	1330	1420	1380	1330	1320	1370	1270	746	332	348	257	309
14	1350	1420	1390	1330	1510	1370	640	716	305	278	308	319
15	1440	1430	1390	1330	1420	1370	451	618	284	284	578	273
16	1420	1430	1380	1300	1410	1400	757	652	303	289	523	245
17	1400	1440	1380	1340	1340	1320	493	777	277	346	468	258
18	1430	1430	1380	1320	1330	1380	638	995	269	294	410	261
19	1410	1440	1390	1330	1290	1340	936	1070	262	257	406	250
20	1420	1420	1390	1320	1290	1280	737	983	323	270	362	252
21	1410	1450	1360	1320	1330	1320	401	960	359	661	338	263
22	1390	1430	1390	1320	1340	1300	400	866	413	741	396	251
23	1380	1430	1380	1320	1360	1280	267	778	371	480	384	206
24	1390	1450	1380	1330	1360	1300	262	774	409	307	404	204
25	1370	1410	1410	1330	1360	1290	308	737	394	229	432	221
26	1370	1420	1410	1350	1310	1310	377	707	325	241	404	229
27	1410	1450	1400	1350	1300	1250	404	630	227	297	424	219
28	1420	1450	1390	1390	1330	1280	456	608	283	268	393	233
29	1420	1470	1380	1390	---	1260	506	582	368	310	323	237
30	1440	1410	1330	1380	---	1290	569	507	367	302	292	276
31	1410	---	1350	1370	---	1310	---	421	---	261	332	---
TOTAL	42900	43010	44080	42080	37530	41230	25572	22623	10628	11055	10585	8465
MEAN	1384	1434	1422	1357	1340	1330	852	730	354	357	341	282
MAX	1440	1470	1530	1490	1510	1480	1370	1070	517	741	578	395
MIN	1260	1410	1330	1300	1290	1250	262	421	227	229	203	204
AC-FT	85090	85310	87430	83470	74440	81780	50720	44870	21080	21930	21000	16790

CAL YR 1986 TOTAL 632307 MEAN 1732 MAX 3720 MIN 206 AC-FT 1254000
WTR YR 1987 TOTAL 339758 MEAN 931 MAX 1530 MIN 203 AC-FT 673900

10171000 JORDAN RIVER AT SALT LAKE CITY, UT

LOCATION.--Lat 40°44'01", long 111°55'21", in SW¼SE¼NW¼ sec.14, T.1 S., R.1 W., Salt Lake County, Hydrologic Unit 16020204, on right bank at 1700 South Street and about 1000 West, Salt Lake City, 4,000 ft downstream from diversion structure at head of Surplus Canal, and 1.7 mi downstream from Mill Creek.

DRAINAGE AREA.--3,438 mi^2 includes 255 mi^2 closed basin in Cedar Valley.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,220.08 ft NGVD of 1929. Prior to July 1, 1976 at site 3,200 ft upstream at same datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Flow completely regulated since reconstruction in May 1952 of Surplus Canal diversion dam 4,000 ft upstream. Flow affected by regulation at Utah Lake, Deer Creek Reservoir, other storage and regulation, and importation of water from other basins. Many diversions above station for irrigation, industrial, and municipal water supplies. For records of Surplus Canal see station 10170500. For records of combined flow, see following page.

AVERAGE DISCHARGE.--44 years (1943-87), 146 ft^3/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 449 ft^3/s Aug. 20, 1986, gage height, 4.41 ft; maximum gage height, 5.75 ft June 26, 1952; no flow May 10, 24, 1952. May 21, 22, 1962, Sept. 21, 1963, May 14 to June 1, 1964, and Sept. 6, 7, 1965 entire flow diverted to Surplus Canal. Maximum daily combined discharge (Jordan River and Surplus Canal), 4,510 ft^3/s June 1, 1984; minimum daily, 89 ft^3/s June 23, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 316 ft^3/s July 21, gage height, 3.38 ft; minimum daily discharge, 62 ft^3/s June 1, Aug. 5. Maximum daily combined discharge during year (Jordan River and Surplus Canal), 3,600 ft^3/s Dec. 11; minimum daily, 806 ft^3/s Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	183	e178	156	145	127	126	178	62	150	161	148
2	227	183	e178	156	149	127	125	167	103	150	157	146
3	224	183	e178	155	152	127	125	139	131	143	100	146
4	215	183	e177	155	144	124	131	143	129	119	66	149
5	210	181	174	161	141	122	123	140	127	116	62	150
6	209	188	177	159	140	122	126	132	131	113	104	145
7	209	188	177	156	141	121	130	128	134	121	135	144
8	203	184	176	155	139	121	132	129	133	132	132	144
9	200	181	176	153	139	151	135	123	122	141	130	142
10	205	179	174	152	140	126	138	118	121	141	136	118
11	205	178	177	153	140	126	136	118	117	139	140	113
12	202	178	175	152	140	126	131	130	112	136	136	165
13	193	178	169	152	141	139	138	151	109	139	137	150
14	192	178	168	150	167	131	117	144	104	132	144	153
15	197	181	167	150	143	128	142	129	104	134	168	157
16	196	177	167	154	141	136	213	132	103	137	150	154
17	200	177	167	152	139	127	184	148	104	139	145	155
18	217	175	167	151	138	132	185	159	105	131	141	154
19	215	179	167	151	136	127	214	151	105	125	140	150
20	218	176	166	150	130	123	183	134	105	127	135	147
21	223	181	165	150	132	122	145	127	108	190	128	148
22	213	183	165	150	132	129	179	117	111	198	129	148
23	209	e180	165	148	132	130	185	107	112	172	129	142
24	212	e180	162	147	133	130	183	104	107	155	128	136
25	208	e180	159	146	131	131	187	99	109	144	131	136
26	207	e180	163	145	126	132	191	93	155	141	126	137
27	182	e179	161	145	124	128	189	86	203	143	124	136
28	143	e179	159	145	126	129	186	81	187	126	142	137
29	189	e179	159	145	---	129	178	74	151	117	152	139
30	189	e179	157	144	---	126	176	68	151	114	148	145
31	188	---	156	144	---	126	---	63	---	138	152	---
TOTAL	6322	5410	5226	4682	3881	3975	4733	3812	3655	4303	4108	4334
MEAN	204	180	169	151	139	128	158	123	122	139	133	144
MAX	227	188	178	161	167	151	214	178	203	198	168	165
MIN	143	175	156	144	124	121	117	63	62	113	62	113
AC-FT	12540	10730	10370	9290	7700	7880	9390	7550	7250	8530	8150	8600

CAL YR 1986 TOTAL 60932 MEAN 167 MAX 314 MIN 7.0 AC-FT 120900
WTR YR 1987 TOTAL 54441 MEAN 149 MAX 227 MIN 62 AC-FT 108000

e Estimated

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1974 to September 1978, October 1980 to September 1981.
WATER TEMPERATURES: April 1975 to September 1978, October 1980 to September 1981.

INSTRUMENTATION.--Specific conductance recorder October 1974 to September 1981; temperature recorder April 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 2,330 microsiemens Mar. 29, 1977; minimum, 536 microsiemens June 25, 1978.
WATER TEMPERATURES: Maximum, 28.0°C Aug. 29, 30, 1975; minimum, 0.5°C Jan. 2, 3, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE AIR (DEG C)	TEMPER-ATURE WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	BARO-METRIC PRES-SURE (MM OF HG)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1986 04...	1045	176	1310	8.20	3.5	4.5	22	12.7	660	56	K29
MAR , 1987 12...	1300	124	1210	8.20	15.0	8.5	50	9.6	660	98	120
MAY 20...	1250	136	950	8.00	10.5	12.0	17	8.4	650	200	280
JUL 10...	0930	138	1520	8.10	19.5	18.5	17	5.7	646	160	750
AUG 12...	1550	143	1540	7.90	28.0	22.0	31	6.5	650	170	100
27...	1305	127	1520	8.00	25.0	19.0	33	7.8	660	K480	430

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WH WAT TOTAL FIELD MG/L AS HCO3	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3
DEC , 1986 04...	350	130	67	43	120	42	3	11	260	213
MAR , 1987 12...	360	140	74	43	110	39	3	12	270	221
MAY 20...	290	110	65	30	77	36	2	7.0	210	171
JUL 10...	460	200	100	50	150	41	3	13	310	256
AUG 12...	440	190	94	50	150	42	3	13	310	249
27...	440	200	93	50	150	42	3	14	290	238

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
DEC , 1986 04...	180	150	0.50	22	724	720	0.98	344	0.900	0.030
MAR , 1987 12...	190	160	0.50	21	750	750	1.0	251	0.730	0.050
MAY 20...	150	110	0.30	15	566	560	0.77	208	1.12	0.080
JUL 10...	280	200	0.70	25	968	970	1.3	361	--	--
AUG 12...	260	190	0.60	23	968	930	1.3	374	1.35	0.150
27...	250	180	0.60	23	949	910	1.3	325	--	--

K Results based on colony count outside acceptable range (non-ideal colony count).

10171000 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC , 1986										
04...	0.930	0.490	0.500	0.64	1.0	1.5	0.340	0.340	0.330	1.0
MAR , 1987										
12...	0.780	0.770	0.710	0.91	1.0	1.8	0.590	0.560	0.510	1.6
MAY										
20...	1.20	0.760	0.770	0.99	0.84	1.6	0.850	0.720	0.630	1.9
JUL										
10...	--	--	--	--	--	--	--	--	--	--
AUG										
12...	1.50	1.60	1.70	2.2	2.2	3.8	1.40	1.70	1.00	3.1
27...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
DEC , 1986											
04...	1045	10	10	70	<0.5	3	1	<3	3	7	<5
MAR , 1987											
12...	1300	20	7	67	<0.5	<1	<1	<3	4	21	<5
JUL											
10...	0930	<10	14	71	<0.5	<1	<1	<3	4	14	<5
AUG											
27...	1305	10	14	72	<0.5	<1	5	<3	4	15	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC , 1986										
04...	97	6	<0.1	<10	3	2	<1	870	<6	16
MAR , 1987										
12...	92	15	<0.1	<10	3	1	<1	930	<6	16
JUL										
10...	110	28	0.2	10	1	2	<1	990	<6	16
AUG										
27...	110	24	<0.1	20	1	3	<1	1000	<6	10

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1986						
04...	1045	176	4.5	87	85	40
MAR , 1987						
12...	1300	124	8.5	89	86	29
MAY						
20...	1250	136	12.0	87	66	24
JUL						
10...	0930	138	18.5	78	64	24
AUG						
12...	1550	143	22.0	84	86	33
27...	1305	127	19.0	88	116	40

10170490 JORDAN RIVER AT SALT LAKE CITY, UT--Continued

Combined discharge, in cubic feet per second, of Jordan River and Surplus Canal

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3460	3420	3460	3180	3180	3050	2990	1860	1030	1190	911	1100
2	3550	3460	3480	3200	3190	3070	2960	2390	1000	1250	877	1060
3	3540	3380	3520	3170	3170	3050	2980	1900	947	1150	870	1160
4	3370	3380	3520	3210	3120	2980	3030	1790	969	1080	888	1140
5	3350	3380	3490	3460	3040	3000	2980	1720	977	1050	888	1070
6	3390	3450	3560	3380	3040	3000	3070	1640	1090	1010	806	1010
7	3390	3510	3540	3300	3040	3100	3090	1640	1400	1020	859	1030
8	3320	3440	3580	3210	3040	3100	3130	1730	1430	1150	882	1040
9	3220	3440	3460	3170	3040	3410	2990	1810	1250	1300	916	1080
10	3200	3360	3430	3190	3040	3110	3000	1830	1300	1270	914	1140
11	3120	3380	3600	3190	3020	3090	3020	1850	1260	1290	930	1120
12	3200	3360	3390	3150	3040	3050	2810	1770	1110	1210	938	1080
13	3230	3380	3270	3110	3060	3160	2960	1950	991	1110	925	1070
14	3270	3380	3290	3110	3530	3130	1630	1860	922	952	1050	1100
15	3480	3400	3290	3110	3260	3130	1330	1620	880	970	1660	1020
16	3440	3400	3270	3050	3240	3220	2150	1700	915	989	1500	952
17	3400	3420	3270	3130	3100	3030	1540	1990	866	1110	1370	981
18	3520	3370	3270	3090	3080	3150	1830	2460	853	981	1240	984
19	3450	3420	3290	3110	3000	3070	2510	2590	839	889	1230	950
20	3500	3380	3290	3090	2970	2920	2020	2370	961	921	1130	945
21	3480	3440	3200	3090	3050	3000	1240	2310	1060	1890	1060	970
22	3410	3400	3260	3090	3070	2990	1340	2080	1160	2080	1180	946
23	3390	3400	3240	3090	3110	2950	1090	1880	1080	1480	1150	838
24	3410	3440	3240	3110	3110	2990	1070	1860	1140	1080	1190	816
25	3370	3360	3300	3110	3110	2970	1180	1770	1110	890	1260	850
26	3370	3380	3300	3120	3010	3010	1330	1690	1110	905	1190	869
27	3360	3440	3280	3120	2960	2890	1370	1520	1060	1020	1220	846
28	3260	3440	3260	3200	3050	2950	1470	1460	1130	914	1210	877
29	3410	3480	3240	3200	---	2910	1550	1390	1190	971	1100	891
30	3450	3360	3140	3180	---	2970	1670	1220	1190	946	1030	987
31	3390	---	3180	3160	---	3010	---	1030	---	936	1120	---
TOTAL	104700	102250	103910	98080	86670	94460	65330	56680	32220	35004	33494	29922
MEAN	3377	3408	3352	3164	3095	3047	2178	1828	1074	1129	1080	997
MAX	3550	3510	3600	3460	3530	3410	3130	2590	1430	2080	1660	1160
MIN	3120	3360	3140	3050	2960	2890	1070	1030	839	889	806	816
AC-FT	207700	202800	206100	194500	171900	187400	129600	112400	63910	69430	66440	59350

CAL YR 1986 TOTAL 857267 MEAN 2349 MAX 3820 MIN 406 AC-FT 1700000
WTR YR 1987 TOTAL 842720 MEAN 2309 MAX 3600 MIN 806 AC-FT 1672000

10171305 PARLEYS CREEK ABOVE ALEXANDER CREEK, NEAR SALT LAKE CITY, UT

LOCATION.--Lat 40°44'55", long 111°41'14" in SE¼SW¼NE¼, sec.11, T.1 S, R.2 E, Salt Lake County, Hydrologic Unit 16020204, on right side of abandoned bridge abutment, 9 mi east of Salt Lake City.

DRAINAGE AREA.--14.9 mi^2.

PERIOD OF RECORD.--April 1987 to September 1987 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,750 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow affected by diversion one mi above gage.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28 ft^3/s, July 21, gage height 6.07 ft; minimum daily discharge, 2.2 ft^3/s, Aug. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e17	e11	5.6	3.8	2.6
2	---	---	---	---	---	---	---	e16	e9.6	5.1	3.6	2.6
3	---	---	---	---	---	---	---	e16	e9.4	5.3	2.5	3.7
4	---	---	---	---	---	---	---	e14	e9.3	5.1	2.7	4.3
5	---	---	---	---	---	---	---	e12	e9.3	5.2	3.0	3.6
6	---	---	---	---	---	---	---	e11	e9.3	4.3	2.4	3.4
7	---	---	---	---	---	---	---	e11	e9.3	4.2	3.1	3.2
8	---	---	---	---	---	---	---	e11	e8.6	4.2	3.0	2.8
9	---	---	---	---	---	---	---	e11	e8.1	4.5	2.8	2.6
10	---	---	---	---	---	---	---	e10	e8.8	4.9	2.4	2.9
11	---	---	---	---	---	---	---	e10	e8.5	4.9	2.7	3.1
12	---	---	---	---	---	---	---	e10	e7.9	4.6	2.2	3.4
13	---	---	---	---	---	---	---	e10	e7.5	3.7	3.1	2.9
14	---	---	---	---	---	---	---	e9.8	e7.4	4.1	3.9	2.9
15	---	---	---	---	---	---	---	e8.9	e7.2	3.5	5.9	3.3
16	---	---	---	---	---	---	---	e8.9	e7.0	3.9	4.2	3.5
17	---	---	---	---	---	---	---	e8.9	e7.3	5.1	3.9	3.1
18	---	---	---	---	---	---	---	e8.9	e7.6	5.1	3.2	3.6
19	---	---	---	---	---	---	---	e8.9	e7.7	4.7	2.9	3.4
20	---	---	---	---	---	---	---	e9.0	6.0	3.2	2.8	3.4
21	---	---	---	---	---	---	---	e10	6.3	7.7	3.5	2.9
22	---	---	---	---	---	---	---	e9.4	5.6	5.5	3.8	3.0
23	---	---	---	---	---	---	---	e8.7	6.0	4.7	3.6	2.7
24	---	---	---	---	---	---	---	e8.9	6.6	4.3	3.8	3.1
25	---	---	---	---	---	---	---	e9.0	6.5	4.1	3.6	3.1
26	---	---	---	---	---	---	---	e9.5	5.8	3.8	3.2	3.2
27	---	---	---	---	---	---	e14	e11	5.9	3.2	3.4	3.4
28	---	---	---	---	---	---	e14	e11	5.8	3.4	3.3	3.4
29	---	---	---	---	---	---	e15	e11	5.3	4.4	3.3	3.3
30	---	---	---	---	---	---	e16	e11	5.9	3.7	3.3	e2.8
31	---	---	---	---	---	---	---	e11	---	3.7	2.7	---
TOTAL	---	---	---	---	---	---	---	332.8	226.5	139.7	101.6	95.2
MEAN	---	---	---	---	---	---	---	10.7	7.55	4.51	3.28	3.17
MAX	---	---	---	---	---	---	---	17	11	7.7	5.9	4.3
MIN	---	---	---	---	---	---	---	8.7	5.3	3.2	2.2	2.6
AC-FT	---	---	---	---	---	---	---	660	449	277	202	189

e Estimated

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT
(Hydrologic bench mark station)

LOCATION.--Lat 40°46'48", long 111°48'19", in NE¼SE¼NW¼ sec.35, T.1 N., R.1 E., Salt Lake County, Hydrologic Unit 16020204, on right bank 0.4 mi upstream from dam forming Red Butte Reservoir, and 1.7 mi northeast of Fort Douglas.

DRAINAGE AREA.--7.25 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Figures of monthly discharge for January 1942 to September 1963, collected by Corps of Engineers, U.S. Army, available in files of Salt Lake City District Office, Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 5,400 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station. Most of flow is collected in reservoir below station and used for water supply of Fort Douglas.

AVERAGE DISCHARGE.--24 years, 4.84 ft^3/s, 3,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 105 ft^3/s May 28, 1983, maximum gage height, 3.81 ft May 17, 1984; minimum, 0.23 ft^3/s Dec. 22, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 28	0900	*11	*1.11	No other peak greater than base discharge.			

Minimum, 0.78 ft^3/s, Sept. 9-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.2	3.2	2.5	2.5	2.9	3.3	5.0	2.5	1.4	1.1	.92
2	3.9	3.2	3.0	2.7	2.5	2.7	3.4	5.3	2.4	1.4	1.1	.89
3	3.9	3.2	2.9	2.7	2.6	2.7	3.5	4.8	2.3	1.4	1.1	.96
4	3.8	3.2	2.8	2.7	2.5	3.0	3.8	4.4	2.3	1.4	1.1	1.0
5	3.7	3.2	2.8	2.8	2.5	3.2	4.0	4.1	2.2	1.3	1.0	.99
6	3.6	3.3	3.1	2.7	2.5	3.4	4.5	3.9	2.2	1.3	1.0	.95
7	3.5	3.2	2.9	2.7	2.5	3.6	4.8	3.8	2.2	1.3	1.0	.92
8	3.5	3.2	2.9	2.5	2.5	3.6	5.0	3.9	2.2	1.3	1.0	.89
9	3.3	3.2	2.7	e2.4	2.5	4.0	5.1	3.8	2.2	1.3	1.0	.87
10	3.3	3.2	2.8	e2.3	2.6	3.9	5.1	3.7	2.1	1.4	1.0	.88
11	3.3	3.2	2.6	e2.3	2.7	3.8	5.2	3.6	2.0	1.3	1.1	.85
12	3.2	3.2	2.8	e2.4	2.8	3.8	5.2	3.4	2.0	1.3	1.0	.84
13	3.2	3.2	2.8	e2.5	2.9	4.0	5.0	3.3	2.0	1.3	1.0	.83
14	3.2	3.2	2.8	e2.5	3.1	4.0	4.8	3.2	1.8	1.2	1.1	.89
15	3.2	3.2	2.8	e2.4	2.8	3.9	4.7	3.1	1.8	1.2	1.3	.91
16	3.2	3.2	2.7	e2.2	2.8	4.1	4.9	3.1	1.8	1.2	1.2	.92
17	3.2	3.3	2.7	e2.2	2.7	4.2	5.1	3.2	1.7	1.2	1.1	.93
18	3.3	3.3	2.7	e2.4	2.7	4.3	5.1	3.4	1.7	1.2	1.1	.92
19	3.5	3.7	2.7	e2.4	2.7	4.3	5.5	3.4	1.7	1.2	1.0	.89
20	3.5	3.5	2.7	e2.2	2.7	4.0	5.7	3.1	1.7	1.2	1.0	.87
21	3.3	3.6	2.7	e2.2	2.9	3.8	5.8	3.0	1.6	1.7	1.0	.87
22	3.2	3.5	2.7	e2.2	2.7	3.7	5.7	2.9	1.6	1.4	1.0	.87
23	3.3	3.4	2.6	e2.3	2.7	3.7	5.5	2.9	1.6	1.3	1.0	.86
24	3.2	3.4	2.6	e2.4	2.7	3.6	5.6	2.8	1.6	1.3	1.1	.86
25	3.2	3.4	2.6	2.5	3.0	3.5	5.6	2.9	1.5	1.3	1.0	.86
26	3.2	3.3	2.5	2.6	4.1	3.3	5.7	2.8	1.5	1.2	1.0	.90
27	3.2	3.3	2.6	2.5	3.5	3.3	5.6	2.8	1.5	1.2	1.0	.93
28	3.2	3.2	2.6	2.6	4.9	3.3	5.4	2.7	1.5	1.2	.97	.93
29	3.2	3.2	2.7	2.7	---	3.1	5.2	2.8	1.5	1.2	.95	.93
30	3.2	3.2	2.6	2.6	---	3.0	5.1	2.7	1.5	1.2	.95	.93
31	3.2	---	e2.4	2.5	---	3.1	---	2.5	---	1.1	.92	---
TOTAL	104.5	98.6	85.0	76.6	79.6	110.8	148.9	106.3	56.2	39.9	32.19	27.06
MEAN	3.37	3.29	2.74	2.47	2.84	3.57	4.96	3.43	1.87	1.29	1.04	.90
MAX	3.9	3.7	3.2	2.8	4.9	4.3	5.8	5.3	2.5	1.7	1.3	1.0
MIN	3.2	3.2	2.4	2.2	2.5	2.7	3.3	2.5	1.5	1.1	.92	.83
AC-FT	207	196	169	152	158	220	295	211	111	79	64	54

CAL YR 1986 TOTAL 288.10 MEAN 3.13 MAX 3.9 MIN 2.4 AC-FT 571
WTR YR 1987 TOTAL 965.64 MEAN 2.65 MAX 5.8 MIN .83 AC-FT 1920

e Estimated

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1964 to September 1978.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
DEC , 1986											
02...	0920	3.2	590	8.50	-4.5	0.5	0.30	13.4	630	<1	K7
MAR , 1987											
13...	1130	3.7	640	8.40	11.0	5.0	1.2	10.4	620	<1	K5
MAY											
19...	1040	3.4	590	8.50	13.0	9.5	3.5	9.3	620	K19	120
JUL											
10...	1210	1.4	590	8.60	18.0	12.0	--	10.2	710	110	300
AUG											
13...	1230	1.1	600	8.50	24.0	14.0	1.2	8.6	620	61	230
31...	1300	1.0	600	8.50	25.0	14.0	0.30	9.0	630	K41	230

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD MG/L AS HCO3	CARBONATE WH WAT TOTAL FIELD MG/L AS CO3
DEC , 1986										
02...	340	75	92	27	14	8	0.3	1.0	260	31
MAR , 1987										
13...	330	100	91	24	13	8	0.3	0.90	250	14
MAY										
19...	310	79	86	24	12	8	0.3	1.0	270	10
JUL										
10...	--	--	--	--	--	--	--	--	260	8
AUG										
13...	320	100	82	27	14	9	0.4	1.1	250	6
31...	320	100	82	27	14	9	0.4	1.0	250	6

DATE	ALKALINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)
DEC , 1986										
02...	262	97	14	0.10	10	327	440	0.44	2.9	<0.010
MAR , 1987										
13...	224	110	14	0.10	9.8	392	410	0.53	4.0	<0.010
MAY										
19...	235	77	15	0.30	11	370	380	0.50	3.4	<0.010
JUL										
10...	230	--	--	--	--	--	--	--	--	<0.010
AUG										
13...	213	100	12	0.10	11	380	380	0.52	1.1	<0.010
31...	212	110	13	0.10	12	368	390	0.50	1.0	<0.010

K Results based on colony count outside acceptable range (non-ideal colony count).

10172200 RED BUTTE CREEK AT FORT DOUGLAS, NEAR SALT LAKE CITY, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
DEC , 1986										
02...	<0.100	0.030	0.030	0.04	--	<0.20	<0.010	0.020	0.020	0.06
MAR , 1987										
13...	<0.100	0.030	0.020	0.03	0.17	0.20	0.030	0.020	0.020	0.06
MAY										
19...	<0.100	0.040	0.010	0.01	2.1	2.1	0.090	0.030	0.020	0.06
JUL										
10...	<0.100	0.030	0.040	0.05	--	<0.20	<0.010	0.030	<0.010	--
AUG										
13...	<0.100	0.020	0.040	0.05	--	<0.20	0.030	0.020	0.040	0.12
31...	<0.100	0.030	0.040	0.05	0.57	0.60	0.020	0.020	0.030	0.09

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
MAY , 1987											
19...	1040	<10	1	66	<0.5	1	4	<3	1	6	<5
AUG											
13...	1230	<10	2	62	<0.5	<1	<1	<3	<1	4	<5
31...	1300	<10	2	63	<0.5	<1	1	<3	1	4	<5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY , 1987										
19...	13	6	<0.1	<10	1	<1	<1	430	<6	17
AUG										
13...	5	2	<0.1	<10	1	3	<1	490	<6	<3
31...	6	1	<0.1	<10	<1	2	<1	490	<6	<3

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
DEC , 1986						
02...	0920	3.2	0.5	24	63	0.55
MAR , 1987						
13...	1130	3.7	5.0	76	19	0.19
MAY						
19...	1040	3.4	9.5	75	84	0.78
JUL						
10...	1210	1.4	12.0	61	12	0.05
AUG						
13...	1230	1.1	14.0	40	28	0.08
31...	1300	1.0	14.0	41	10	0.03

10172700 VERNON CREEK NEAR VERNON, UT

LOCATION.--Lat 39°58'46", long 112°22'46", in NE¼SW¼SW¼ sec.2, T.10 S., R.5 W., Tooele County, Hydrologic Unit 16020304, on right bank 6.6 mi upstream from confluence with Dutch Creek forming Faust Creek and 8.3 mi southeast of Vernon.

DRAINAGE AREA.--25.0 mi^2.

PERIOD OF RECORD.--June 1958 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from AMS topographic map.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--29 years, 3.98 ft^3/s, 2,880 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 825 ft^3/s Aug. 27, 1972, gage height, 5.70 ft, based on slope-area measurement; minimum, 0.41 ft^3/s Nov. 20, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 8	1800	*23	*1.43	No other peak greater than base discharge			

Minimum daily, 4.3 ft^3/s many days in August and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	7.0	6.9	6.1	6.1	5.5	5.9	6.1	5.5	4.9	4.8	4.5
2	6.8	7.0	6.9	6.1	6.2	5.5	5.8	6.0	5.4	4.8	4.8	4.4
3	6.9	7.0	6.7	6.1	6.3	5.4	6.1	5.8	5.3	4.8	4.8	4.5
4	6.7	7.0	6.7	6.1	6.1	5.4	6.1	5.8	5.3	4.8	4.7	4.4
5	6.9	7.0	6.3	6.4	6.0	5.5	6.2	5.7	5.4	4.8	4.7	4.3
6	7.0	7.1	6.1	6.2	6.0	5.6	5.8	5.6	5.4	4.8	4.9	4.4
7	7.0	7.0	6.1	6.3	6.0	6.0	5.9	5.5	5.4	4.8	4.8	4.4
8	7.0	7.0	6.1	6.2	6.1	10	5.8	5.6	5.4	4.8	4.7	4.3
9	7.0	7.0	6.1	6.1	6.1	9.4	5.9	5.6	5.4	4.7	4.7	4.3
10	7.0	6.9	5.8	6.2	6.1	7.4	5.8	5.6	5.4	4.7	4.6	4.3
11	7.2	6.9	5.8	6.3	6.1	6.2	5.8	5.6	5.3	4.9	4.3	4.3
12	7.0	6.8	5.8	6.3	6.1	6.8	5.8	5.6	5.3	4.8	4.3	4.3
13	7.0	6.8	5.9	6.1	6.4	5.8	5.8	5.6	5.3	4.7	4.3	4.4
14	7.1	6.7	5.8	6.2	6.1	5.6	5.8	5.6	5.3	4.7	4.3	4.5
15	7.1	6.7	5.9	6.4	5.8	5.7	5.8	5.6	5.2	4.7	4.6	4.5
16	7.1	6.7	6.1	6.4	5.8	5.9	5.8	5.6	5.2	4.7	4.3	4.4
17	7.0	6.7	6.1	6.1	5.8	5.9	5.8	5.8	5.2	4.8	4.3	4.3
18	7.2	6.9	6.1	6.2	5.8	5.9	5.9	5.9	4.8	4.8	4.3	4.3
19	7.1	6.7	6.1	6.4	5.8	6.0	6.3	5.8	4.8	4.7	4.3	4.3
20	7.0	6.7	6.1	6.4	5.8	5.9	6.1	5.6	4.9	4.8	4.3	4.3
21	7.4	6.7	6.0	6.2	5.7	5.8	6.1	5.6	4.8	5.1	4.5	4.3
22	7.2	6.7	5.8	6.4	5.5	5.8	6.1	5.5	4.8	4.8	4.5	4.3
23	7.2	6.7	5.8	6.4	5.5	5.8	6.1	5.7	4.8	4.8	4.4	4.3
24	7.0	6.4	5.8	6.3	5.5	5.8	6.1	5.7	4.8	4.8	4.7	4.3
25	7.0	6.4	5.8	6.3	5.4	5.8	6.1	5.8	4.8	4.8	4.7	4.3
26	7.2	6.5	5.9	6.2	5.5	5.8	6.4	5.9	4.8	4.8	4.6	4.3
27	7.2	6.4	6.1	6.4	5.5	5.8	6.3	5.7	4.8	4.8	4.5	4.4
28	7.4	6.5	6.1	6.7	5.5	5.8	6.3	5.8	4.9	4.8	4.5	4.4
29	7.1	6.8	6.1	6.2	---	5.8	6.2	6.0	5.0	5.0	4.5	4.4
30	7.2	6.9	6.1	6.4	---	5.6	6.1	5.7	5.1	4.9	4.5	4.3
31	7.1	---	6.1	6.1	---	5.7	---	5.6	---	4.9	4.5	---
TOTAL	218.8	203.6	189.0	194.2	164.6	188.9	180.0	177.0	153.8	149.0	140.7	130.7
MEAN	7.06	6.79	6.10	6.26	5.88	6.09	6.00	5.71	5.13	4.81	4.54	4.36
MAX	7.4	7.1	6.9	6.7	6.4	10	6.4	6.1	5.5	5.1	4.9	4.5
MIN	6.7	6.4	5.8	6.1	5.4	5.4	5.8	5.5	4.8	4.7	4.3	4.3
AC-FT	434	404	375	385	326	375	357	351	305	296	279	259

CAL YR 1986 TOTAL 2930.1 MEAN 8.03 MAX 17 MIN 5.8 AC-FT 5810
WTR YR 1987 TOTAL 2090.3 MEAN 5.73 MAX 10 MIN 4.3 AC-FT 4150

10172765 CLOVER CREEK ABOVE BIG HOLLOW, NEAR CLOVER, UT

LOCATION.--Lat 40°20'06", long 112°31'39", in NE¼SE¼SW¼ sec.33, T.5S S., R.6 W., Tooele County, Hydrologic Unit 16020304, on left bank 60 ft south of State Highway 199 at milepost 15.9, and 4.6 mi west of St. John.

DRAINAGE AREA.--6.71 mi^2.

PERIOD OF RECORD.--November 1984 to current year.

GAGE.--Water-stage recorder and sharp crested weir. Elevation of gage is 5,660 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, whick are fair.

EXTREMES FOR PERIOD OF RECORP.--Maximum discharge, 31 ft^3/s June 1, 1586, gage height, 2.05 ft; minimum daily, 2.0 ft^3/s Sept. 30, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8.3 ft^3/s Apr. 16, May 18, gage height, 1.53 ft; minimum daily, 2.0 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	3.7	3.1	e2.8	e2.5	e2.4	2.4	6.9	5.0	3.9	3.1	2.4
2	4.6	3.7	3.1	e2.7	e2.6	2.4	3.0	6.0	4.9	3.7	3.1	2.4
3	4.6	3.7	3.1	e2.7	e2.6	2.4	3.9	5.0	4.8	3.7	3.1	2.4
4	4.6	3.7	3.1	e2.7	e2.5	2.4	4.0	4.5	4.8	3.7	3.1	2.4
5	4.6	3.7	3.1	e2.6	e2.5	2.4	3.9	4.6	4.7	3.7	3.1	2.4
6	4.6	3.7	3.1	e2.5	e2.5	2.4	3.9	5.0	4.6	3.7	3.1	2.4
7	4.4	3.7	3.1	e2.5	e2.6	2.4	3.9	5.5	4.7	3.6	3.1	2.4
8	4.3	3.6	3.1	e2.5	e2.4	2.4	3.9	5.9	4.6	3.5	3.0	2.4
9	4.3	3.5	3.1	e2.5	2.2	2.6	4.8	6.3	4.6	3.5	2.9	2.4
10	4.3	3.5	2.9	e2.5	2.2	2.6	4.8	6.1	4.6	3.5	2.9	2.4
11	4.3	3.5	2.9	e2.5	2.2	2.6	5.4	5.9	4.4	3.5	2.9	2.4
12	4.3	3.5	2.9	e2.5	2.2	2.6	4.8	5.8	4.3	3.5	2.9	2.4
13	4.1	3.5	2.9	e2.5	2.3	2.6	4.2	6.0	4.1	3.5	2.9	2.4
14	4.1	3.4	3.0	e2.4	2.6	2.7	4.4	6.0	4.1	3.5	2.9	2.4
15	4.1	3.3	3.1	e2.4	2.6	2.7	5.8	6.0	4.1	3.5	2.9	2.4
16	4.1	3.3	3.1	e2.4	2.5	2.7	7.0	6.3	4.1	3.5	2.9	2.4
17	4.1	3.3	3.2	e2.3	2.4	2.6	7.4	6.0	4.1	3.5	2.7	2.2
18	4.1	3.3	3.3	e2.4	2.4	2.6	7.6	6.5	4.1	3.5	2.7	2.2
19	4.1	3.3	3.3	e2.4	2.4	2.6	6.5	6.4	3.9	3.5	2.7	2.2
20	4.1	3.3	3.3	e2.4	2.4	2.6	5.0	6.5	3.9	3.4	2.7	2.2
21	3.9	3.3	3.2	e2.3	2.4	2.5	4.2	6.0	4.0	3.5	2.8	2.2
22	3.9	3.3	3.1	e2.4	2.4	2.4	4.3	5.4	3.9	3.3	2.9	2.2
23	3.9	3.3	3.2	e2.4	e2.4	2.4	5.6	5.3	3.9	3.3	2.6	2.2
24	3.9	3.2	2.9	e2.4	e2.3	2.4	6.2	5.2	3.9	3.3	2.6	2.2
25	3.9	3.1	2.8	e2.4	e2.3	2.4	6.3	5.0	3.9	3.3	2.6	2.2
26	3.9	3.1	e3.0	e2.4	e2.3	2.4	7.0	5.0	3.9	3.3	2.6	2.2
27	3.9	3.1	e3.1	e2.5	e2.3	2.2	7.1	4.8	3.9	3.3	2.6	2.1
28	3.7	3.1	e3.1	e2.5	e2.4	2.2	7.3	4.8	3.9	3.3	2.5	2.1
29	3.7	3.1	e3.1	e2.5	---	2.4	7.5	4.9	3.9	3.3	2.4	2.1
30	3.7	3.1	e3.1	e2.5	---	2.4	7.4	5.0	3.9	3.3	2.4	2.0
31	3.7	---	e3.0	e2.5	---	2.3	---	5.0	---	3.1	2.4	---
TOTAL	128.4	101.9	95.4	77.0	67.4	76.7	159.5	173.6	127.5	107.7	87.1	68.7
MEAN	4.14	3.40	3.08	2.48	2.41	2.47	5.32	5.60	4.25	3.47	2.81	2.29
MAX	4.6	3.7	3.3	2.8	2.6	2.7	7.6	6.9	5.0	3.9	3.1	2.4
MIN	3.7	3.1	2.8	2.3	2.2	2.2	2.4	4.5	3.9	3.1	2.4	2.0
AC-FT	255	202	189	153	134	152	316	344	253	214	173	136

CAL YR 1986 TOTAL 2925.4 MEAN 8.01 MAX 31 MIN 2.2 AC-FT 5800
WTR YR 1987 TOTAL 1270.9 MEAN 3.48 MAX 7.6 MIN 2.0 AC-FT 2520

e Estimated

10172795 BOX ELDER WASH NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'42", long 112°31'52", in SE¼NE¼SW¼ sec.4, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on left bank 0.5 mi west of county road and 6.5 mi southwest of Grantsville.

PERIOD OF RECORD.--October 1986 to September 1987.

GAGE.--Water-stage recorder. Altitude of gage is 5,700 ft from topographic map.

REMARKS.--Records good except for estimated daily dischares, which are poor. No regulation or diversion above station.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2.0 ft^3/s, many days in October; minimum daily, 0.78 ft^3/s, Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.0	e1.9	1.7	e1.6	1.6	1.2	.94	.89	.98	1.2	1.0	1.0
2	e2.0	e1.9	1.7	e1.6	1.6	1.2	.94	.87	1.0	1.2	.98	.98
3	e2.0	e1.9	1.7	1.6	1.5	1.1	.94	.87	.94	1.2	.94	.94
4	e2.0	e1.9	1.7	1.6	1.5	1.1	.94	.87	.98	1.2	.94	.91
5	e2.0	e1.9	1.7	1.7	1.4	1.1	.94	.87	1.0	1.1	.94	.87
6	e2.0	e1.9	1.7	1.7	1.4	1.1	.94	.87	1.0	1.1	.94	.87
7	e2.0	e1.9	1.7	1.6	1.4	1.1	.94	.87	1.1	1.1	.99	.87
8	e2.0	e1.9	1.7	1.7	1.4	1.2	.94	.87	1.1	1.1	1.0	.87
9	e2.0	e1.9	1.6	1.7	1.3	1.1	.94	.94	1.0	1.1	1.1	.87
10	e2.0	e1.9	1.6	1.7	1.3	1.1	.94	.91	1.1	1.1	1.2	.82
11	e2.0	e1.8	1.6	1.7	1.4	1.1	.94	.85	1.1	1.1	1.2	.81
12	e2.0	e1.8	1.6	1.7	1.4	1.1	.94	.87	1.1	1.1	1.1	.81
13	e2.0	e1.8	1.7	1.6	1.4	1.1	.94	.89	1.1	1.1	1.1	.81
14	e2.0	e1.8	1.7	1.6	1.4	1.1	.94	.88	1.1	1.1	1.1	.81
15	e2.0	e1.9	1.7	1.6	1.3	1.1	.94	.94	1.1	1.1	1.1	.84
16	e2.0	e1.9	1.7	1.6	1.3	1.2	.94	.88	1.2	1.1	1.1	.88
17	e2.0	e1.9	1.7	1.6	1.3	1.1	.91	.82	1.3	1.0	1.1	.86
18	e1.9	e1.9	1.6	1.5	1.3	1.2	.87	.88	1.2	1.0	1.1	.84
19	e1.9	1.9	1.6	1.5	1.3	1.2	.87	.88	1.2	1.0	1.1	.78
20	e1.9	1.9	1.6	1.6	1.2	1.1	.87	.90	1.1	1.1	1.1	.83
21	e1.9	1.9	1.7	1.6	1.2	1.1	.87	.94	1.1	1.1	1.1	.81
22	e1.9	1.8	1.6	1.5	1.2	1.0	.87	.89	1.1	1.1	1.1	.83
23	e1.9	1.8	1.6	1.5	1.2	1.0	.87	.90	1.1	1.1	1.1	.81
24	e1.9	1.8	1.6	1.5	1.2	1.1	.87	.94	1.1	1.0	1.0	.81
25	e1.9	1.8	1.6	1.6	1.2	1.1	.87	.94	1.1	1.0	1.0	.81
26	e1.9	1.8	1.5	1.6	1.2	1.1	.87	.97	1.1	1.0	1.0	.83
27	e1.9	1.8	1.5	1.6	1.2	.96	.87	1.0	1.1	1.0	1.0	.81
28	e1.9	1.8	1.5	1.6	1.2	.96	.87	.92	1.2	1.0	1.0	.81
29	e1.9	1.8	1.6	1.5	---	1.0	.87	.91	1.2	1.0	1.0	.81
30	e1.9	1.7	1.6	1.5	---	1.0	.87	.94	1.2	1.0	1.0	.81
31	e1.9	---	e1.6	1.6	---	.98	---	.94	---	1.0	1.0	---
TOTAL	60.6	55.6	50.7	49.6	37.3	33.90	27.26	27.91	33.00	33.4	32.43	25.41
MEAN	1.95	1.85	1.64	1.60	1.33	1.09	.91	.90	1.10	1.08	1.05	.85
MAX	2.0	1.9	1.7	1.7	1.6	1.2	.94	1.0	1.3	1.2	1.2	1.0
MIN	1.9	1.7	1.5	1.5	1.2	.96	.87	.82	.94	1.0	.94	.78
AC-FT	120	110	101	98	74	67	54	55	65	66	64	50

WTR YR 1987 TOTAL 467.10 MEAN 1.28 MAX 2.0 MIN .78 AC-FT 926

e Estimated

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°29'47", long 112°34'25", in SW¼NW¼SW¼ sec.6, T.4 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on right bank 200 ft upstream from Forest Service Guard Station, 1.7 mi above Wasatch National Forest boundary, 9.2 mi southwest of Grantsville, and 14.8 mi west of Tooele.

DRAINAGE AREA.--4.19 mi^2. Area at crest-stage gage site, 3.26 mi^2.

PERIOD OF RECORD.--July 1963 to current year. Annual maximum only, July 1960 to July 1963, at crest-stage gage site.

REVISED RECORDS.--W 1983: 1982.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,360 ft from topographic map. Prior to July 23, 1963, crest-stage gage only, at site 1.4 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--24 years, 7.14 ft^3/s, 5,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92 ft^3/s June 8, 1964, gage height, 2.27 ft; minimum discharge, 1.6 ft^3/s Mar. 10, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Peaks above base not determined.				May 2	--	*27 (Maximum daily)	

Minimum daily discharge, 3.0 ft^3/s many days during March and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.3	4.3	3.6	3.3	3.0	3.3	e25	8.2	5.5	3.3	3.3
2	5.1	4.3	4.3	3.6	3.3	3.0	3.4	e27	8.1	5.3	3.3	3.3
3	5.1	4.3	4.3	3.6	3.3	3.0	3.5	e24	8.0	5.1	3.3	3.3
4	5.1	4.3	4.3	3.7	3.3	3.0	3.6	e21	8.0	5.1	3.3	3.3
5	5.1	4.3	4.3	3.7	3.3	3.1	4.1	e18	8.2	4.8	3.6	3.3
6	5.1	4.3	4.3	3.6	3.3	3.3	4.5	e16	8.3	4.7	4.0	3.3
7	5.1	4.3	4.3	3.6	3.3	3.3	4.8	e14	8.3	4.7	4.0	3.3
8	5.1	4.3	4.1	3.6	3.3	3.4	5.1	e13	8.4	4.7	4.0	3.3
9	5.1	4.3	4.0	3.6	3.3	3.6	5.0	e12	8.4	5.1	4.0	3.3
10	5.1	4.2	4.0	3.6	3.3	3.6	4.7	e11	9.0	5.0	3.9	3.3
11	5.2	4.0	4.0	3.6	3.3	3.4	4.7	11	9.2	4.7	3.9	3.0
12	5.1	4.0	3.9	3.6	3.3	3.3	4.7	11	9.0	4.7	3.8	3.0
13	5.1	4.1	3.6	3.6	3.3	3.4	4.7	10	8.8	4.7	3.8	3.0
14	5.1	4.3	3.6	3.6	3.4	3.4	4.7	10	8.5	4.6	4.0	3.0
15	5.1	4.3	3.6	3.6	3.3	3.6	4.7	11	8.8	4.3	4.0	3.2
16	5.1	4.3	3.6	3.6	3.3	3.6	4.3	12	8.5	4.3	3.8	3.3
17	5.1	4.3	3.6	3.6	3.3	3.6	6.8	11	8.2	4.3	3.6	3.3
18	5.0	4.3	3.6	3.6	3.3	3.6	12	12	8.0	4.3	3.6	3.3
19	4.9	4.3	3.6	3.6	3.3	3.6	11	12	7.7	4.0	3.6	3.3
20	4.8	4.3	3.6	3.6	3.3	3.4	9.9	13	7.5	4.0	3.6	3.3
21	4.7	4.3	3.6	3.6	3.3	3.3	9.6	12	7.3	4.1	3.9	3.3
22	4.7	4.3	3.6	3.6	3.3	3.3	9.1	11	6.9	4.0	3.7	3.1
23	4.7	4.3	3.6	3.6	3.3	3.3	8.8	9.8	6.8	3.7	3.6	3.0
24	4.7	4.3	3.6	3.6	3.3	3.3	9.1	9.8	6.6	3.3	3.7	3.0
25	4.7	4.3	3.6	3.6	3.3	3.3	9.7	10	6.3	3.3	3.6	3.1
26	4.4	4.3	3.6	3.6	3.3	3.3	13	10	6.1	3.3	3.6	3.2
27	4.3	4.3	3.6	3.5	3.3	3.3	16	10	5.8	3.4	3.6	3.3
28	4.3	4.3	3.6	3.3	3.2	3.3	e17	9.6	5.6	3.6	3.4	3.3
29	4.3	4.3	3.6	3.3	---	3.3	e20	8.7	5.5	3.6	3.3	3.3
30	4.4	4.3	3.6	3.3	---	3.3	e23	8.4	5.5	3.6	3.3	3.3
31	4.3	---	3.6	3.3	---	3.3	---	8.5	---	3.2	3.3	---
TOTAL	150.9	128.1	118.5	110.5	92.4	103.5	244.8	401.8	229.5	133.0	113.4	96.6
MEAN	4.87	4.27	3.82	3.56	3.30	3.34	8.16	13.0	7.65	4.29	3.66	3.22
MAX	5.2	4.3	4.3	3.7	3.4	3.6	23	27	9.2	5.5	4.0	3.3
MIN	4.3	4.0	3.6	3.3	3.2	3.0	3.3	8.4	5.5	3.2	3.3	3.0
AC-FT	299	254	235	219	183	205	486	797	455	264	225	192

CAL YR 1986 TOTAL 3795.8 MEAN 10.4 MAX 65 MIN 3.3 AC-FT 7530
WTR YR 1987 TOTAL 1923.0 MEAN 5.27 MAX 27 MIN 3.0 AC-FT 3810

e Estimated

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT

LOCATION.--Lat 40°31'58", long 112°34'19", in NW¼NE¼NW¼ sec.30, T.3 S., R.6 W., Tooele County, Hydrologic Unit 16020304, on left bank 100 ft upstream from Wasatch National Forest boundary and 200 ft upstream from North Willow Irrigation Company diversion structure, and 7.4 mi southwest of Grantsville.

DRAINAGE AREA.--5.38 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,960 ft from topographic map.

REMARKS.--No estimated daily discharges. Records good.

AVERAGE DISCHARGE.--8 years, 7.10 ft³/s, 5,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 145 ft³/s May 16, 1984; minimum daily, 1.6 ft³/s several days in January and February 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 1	2100	*26	*3.06	No other peak greater than base discharge.			

Minimum daily discharge, 1.8 ft³/s many days during September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.4	3.0	2.6	2.3	2.6	3.5	24	5.1	2.9	2.3	2.0
2	4.4	3.4	3.0	2.5	2.3	2.6	3.9	21	5.1	2.8	2.2	2.0
3	4.4	3.4	3.0	2.4	2.4	2.7	4.7	18	5.0	2.7	2.2	2.1
4	4.4	3.4	3.0	2.3	2.4	2.8	5.8	15	4.9	2.7	2.1	2.1
5	4.4	3.4	2.9	2.4	2.4	3.1	7.0	13	4.9	2.7	2.1	2.1
6	4.4	3.5	2.9	2.3	2.4	3.4	8.0	12	4.9	2.7	2.1	2.1
7	4.4	3.4	2.9	2.3	2.4	3.5	7.9	12	4.8	2.7	2.1	2.1
8	4.4	3.4	2.9	2.2	2.4	3.5	7.9	12	4.6	2.7	2.1	2.0
9	4.4	3.4	2.9	2.2	2.4	3.8	8.0	12	4.5	2.7	2.1	2.0
10	4.4	3.4	2.7	2.2	2.4	3.7	8.1	11	4.4	2.7	2.2	1.9
11	4.6	3.3	2.7	2.2	2.4	3.6	8.4	11	4.3	2.7	2.1	1.8
12	4.4	3.4	2.8	2.2	2.4	3.6	8.8	11	4.1	2.6	2.0	1.8
13	4.3	3.3	2.7	2.2	2.5	3.7	8.6	10	3.9	2.6	2.0	1.8
14	4.3	3.2	2.7	2.2	2.7	3.8	8.1	10	3.8	2.5	2.2	1.8
15	4.2	3.2	2.7	2.2	2.7	3.7	8.3	9.9	3.7	2.5	2.2	1.8
16	4.1	3.2	2.7	2.2	2.7	3.6	9.5	10	3.6	2.5	2.1	1.8
17	4.0	3.2	2.7	2.3	2.7	3.5	12	10	3.6	2.5	2.1	1.8
18	4.1	3.2	2.7	2.3	2.6	3.6	13	10	3.5	2.5	2.0	1.8
19	4.1	3.2	2.7	2.4	2.6	3.6	15	9.7	3.4	2.5	2.0	1.8
20	4.2	3.2	2.7	2.3	2.6	3.4	13	9.2	3.4	2.5	2.0	1.8
21	4.0	3.2	2.7	2.3	2.6	3.4	11	8.6	3.3	2.9	2.2	1.8
22	4.0	3.2	2.7	2.3	2.6	3.4	9.9	8.1	3.2	2.6	2.2	1.8
23	4.0	3.2	2.7	2.3	2.6	3.4	11	7.4	3.2	2.5	2.2	1.8
24	3.9	3.2	2.7	2.4	2.7	3.3	13	7.1	3.2	2.5	2.3	1.8
25	3.7	3.2	2.7	2.4	2.7	3.2	16	6.8	3.0	2.4	2.3	1.8
26	3.6	3.0	2.7	2.4	2.6	3.2	18	6.6	3.0	2.4	2.3	1.8
27	3.6	3.0	2.6	2.3	2.6	3.2	17	6.4	3.0	2.5	2.2	1.8
28	3.6	3.0	2.6	2.4	2.6	3.2	19	5.9	2.9	2.5	2.2	1.8
29	3.6	3.0	2.6	2.4	---	3.3	22	5.6	2.9	2.4	2.1	1.8
30	3.6	3.0	2.6	2.4	---	3.2	22	5.3	2.9	2.4	2.0	1.8
31	3.5	---	2.6	2.4	---	3.3	---	5.1	---	2.3	2.0	---
TOTAL	127.2	97.5	85.5	71.9	70.7	103.9	328.4	323.7	116.1	80.1	66.2	56.4
MEAN	4.10	3.25	2.76	2.32	2.52	3.35	10.9	10.4	3.87	2.58	2.14	1.88
MAX	4.6	3.5	3.0	2.6	2.7	3.8	22	24	5.1	2.9	2.3	2.1
MIN	3.5	3.0	2.6	2.2	2.3	2.6	3.5	5.1	2.9	2.3	2.0	1.8
AC-FT	252	193	170	143	140	206	651	642	230	159	131	112

CAL YR 1986 TOTAL 2902.5 MEAN 7.95 MAX 42 MIN 2.4 AC-FT 5760
WTR YR 1987 TOTAL 1527.6 MEAN 4.19 MAX 24 MIN 1.8 AC-FT 3030

10172870 TROUT CREEK NEAR CALLAO, UT

LOCATION.--Lat 39°44'39", long 113°53'21", in SW¼NW¼SW¼ sec.28, T.12 S., R.18 W., Juab County, Hydrologic Unit 16020306, on left bank 2.9 mi upstream from Birch Creek and 14 mi southwest of Callao.

DRAINAGE AREA.--8.19 mi^2.

PERIOD OF RECORD.--October 1958 to current year. Monthly discharge only for October and November 1958, published in WSP 1734.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion above station.

AVERAGE DISCHARGE.--29 years, 5.91 ft^3/s, 4,280 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177 ft^3/s June 2, 1983, gage height, 2.84 ft; minimum, 0.24 ft^3/s Feb. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 29	0200	*39	*1.99	May 21	0300	33	1.95

Minimum daily discharge, 1.50 ft^3/s Feb. 19, 20, 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.9	e2.1	e2.0	e1.8	1.7	2.2	31	15	4.5	2.8	1.6
2	2.6	2.8	e2.0	e2.1	e1.7	1.7	2.7	26	14	4.3	2.8	1.7
3	2.5	2.8	e2.1	e2.1	e1.8	1.8	3.3	21	14	4.2	2.6	1.8
4	2.3	2.7	e2.1	e2.1	e1.7	1.9	3.3	19	13	4.1	2.5	1.8
5	2.3	2.7	e2.1	e2.1	e1.7	1.9	3.4	18	13	4.0	2.5	1.8
6	2.3	2.6	e2.0	e2.1	e1.7	1.9	3.4	18	12	4.0	2.5	1.9
7	2.2	2.5	e2.0	e2.0	e1.7	2.0	3.2	18	12	3.9	2.5	1.9
8	2.2	2.6	e2.0	e1.9	e1.7	2.1	3.5	19	12	3.7	2.4	1.8
9	2.2	2.6	e1.9	e1.9	e1.7	2.0	3.7	19	11	3.7	2.4	1.8
10	2.3	2.5	e1.9	e1.8	e1.7	1.9	4.2	20	11	3.6	2.4	1.7
11	2.5	2.4	e1.9	e1.8	e1.7	1.9	4.5	19	10	3.6	2.3	1.7
12	2.5	2.2	e2.0	e1.9	e1.8	1.9	4.4	19	9.6	3.5	2.3	1.6
13	2.5	2.2	e2.0	e1.7	e1.8	2.0	4.2	19	9.0	3.2	2.2	1.7
14	2.6	2.1	e2.0	e1.7	e1.8	1.9	4.5	18	8.5	3.1	2.3	1.7
15	2.6	2.1	e2.1	e1.7	e1.9	2.1	5.5	18	8.0	2.9	2.5	1.7
16	2.6	2.2	2.1	e1.7	e1.8	2.0	7.6	17	7.7	2.9	2.3	1.7
17	2.6	2.2	2.1	e1.7	e1.7	2.0	9.9	20	7.2	3.0	2.1	1.7
18	2.7	2.2	2.1	e1.6	e1.6	2.1	11	24	6.7	2.9	2.0	1.7
19	3.2	2.1	2.2	e1.6	e1.5	2.0	9.9	28	6.7	2.8	1.9	1.7
20	3.3	2.0	2.1	e1.7	e1.5	2.2	8.0	29	6.3	3.0	1.9	1.6
21	3.4	2.1	2.0	e1.6	e1.6	2.8	7.1	29	5.8	6.2	2.1	1.6
22	3.2	2.1	2.1	e1.7	e1.5	2.0	8.4	28	5.6	4.8	2.0	1.6
23	3.2	2.1	2.2	e1.8	e1.5	2.0	13	26	5.3	4.1	1.9	1.6
24	3.1	2.1	2.1	e1.8	e1.5	1.9	18	24	5.0	3.8	1.9	1.6
25	3.0	2.0	2.1	e1.8	e1.6	1.9	21	22	4.7	3.6	2.0	1.7
26	2.8	2.2	2.0	e1.9	e1.7	1.9	24	20	4.9	3.5	2.0	1.7
27	2.8	2.1	2.1	e1.9	e1.6	2.0	29	19	5.1	3.5	1.9	1.8
28	2.8	2.1	2.1	e1.8	e1.6	2.0	35	18	5.0	3.4	1.8	1.8
29	2.8	2.1	2.0	e1.9	---	1.9	35	17	4.9	3.3	1.8	1.8
30	2.9	2.1	e1.9	1.9	---	2.4	35	16	4.8	3.1	1.7	1.8
31	3.0	---	e2.1	1.9	---	1.9	---	15	---	2.9	1.7	---
TOTAL	83.3	69.4	63.5	57.2	46.9	61.7	327.9	654	257.8	113.1	68.0	51.6
MEAN	2.69	2.31	2.05	1.85	1.67	1.99	10.9	21.1	8.59	3.65	2.19	1.72
MAX	3.4	2.9	2.2	2.1	1.9	2.8	35	31	15	6.2	2.8	1.9
MIN	2.2	2.0	1.9	1.6	1.5	1.7	2.2	15	4.7	2.8	1.7	1.6
AC-FT	165	138	126	113	93	122	650	1300	511	224	135	102

CAL YR 1986 TOTAL 2392.5 MEAN 6.55 MAX 69 MIN 1.2 AC-FT 4750
WTR YR 1987 TOTAL 1854.4 MEAN 5.08 MAX 35 MIN 1.5 AC-FT 3680

e Estimated

10172952 DUNN CREEK NEAR PARK VALLEY, UT

LOCATION.--Lat 41°51'31", long 113°19'35", in NW¼NW¼NW¼ sec.15, T.13 N., R.13 W., Box Elder County, Hydrologic Unit 16020308, on right bank 150 ft upstream from diversion structure, 200 ft downstream from confluence of left hand and right hand forks, and 2.9 mi north of Park Valley.

DRAINAGE AREA.--8.72 mi^2.

PERIOD OF RECORD.--May 1971 to September 1973, October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,250 ft from topographic map. Prior to Aug. 26, 1982 at site 110 ft downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversions above station.

AVERAGE DISCHARGE.--13 years, 6.50 ft^3/s, 4,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150 ft^3/s May 28, 1983; minimum, 0.14 ft^3/s Mar. 17, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft^3/s June 10, gage height, 1.30 ft; minimum daily, 1.4 ft^3/s several days in September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.1	1.7	e1.6	e1.9	1.7	2.3	13	13	6.3	3.1	1.9
2	3.0	2.1	1.8	e1.6	e2.0	1.9	2.6	12	12	6.0	3.0	1.9
3	3.1	2.0	1.8	e1.8	e1.9	2.0	2.6	10	12	5.9	2.9	2.0
4	2.9	2.0	1.8	e1.8	e1.8	2.3	2.4	9.8	11	5.9	2.9	2.0
5	2.8	2.0	1.8	e1.7	e1.6	2.3	2.4	9.8	11	5.7	2.9	1.9
6	2.7	2.0	1.8	e1.6	e1.6	2.6	2.7	10	11	5.5	2.8	1.9
7	2.6	2.0	1.7	e1.6	1.6	3.2	2.4	10	12	5.4	2.7	1.9
8	2.6	e2.0	1.7	e1.5	1.6	3.7	2.4	10	12	5.3	2.7	1.9
9	2.5	e2.1	e1.6	e1.5	1.5	3.1	2.4	10	11	5.3	2.6	1.8
10	2.5	2.2	e1.6	e1.6	1.7	2.6	2.5	9.8	12	5.5	2.8	1.7
11	2.4	2.2	e1.7	e1.6	1.7	2.4	2.5	9.5	11	5.1	2.7	1.6
12	2.4	2.2	e1.8	e1.6	1.6	2.3	2.5	9.4	11	4.9	2.6	1.6
13	2.5	2.2	e1.9	e1.6	2.0	2.3	2.6	8.9	10	4.7	2.6	1.6
14	2.5	2.1	e2.0	e1.7	1.7	2.1	2.7	8.7	10	4.6	3.2	1.6
15	2.5	2.1	e2.1	e1.7	1.6	2.0	3.0	8.7	9.8	4.4	2.9	1.6
16	2.5	2.0	e2.0	e1.6	1.8	2.0	4.1	9.4	9.5	4.4	2.7	1.6
17	2.5	2.0	e1.9	e1.6	1.7	2.0	5.0	12	9.2	4.9	2.5	1.6
18	3.0	2.0	e1.9	e1.5	e1.6	2.2	5.3	12	8.8	4.6	2.5	1.6
19	2.8	2.1	e1.8	e1.6	e1.7	1.8	5.2	12	8.5	4.2	2.4	1.5
20	2.9	2.0	e1.7	e1.6	e1.7	1.8	4.7	13	8.2	4.1	2.3	1.5
21	2.6	1.9	e1.6	e1.5	e1.7	1.9	4.7	13	7.9	5.5	2.6	1.4
22	2.6	1.7	e1.5	e1.5	e1.7	1.7	5.8	12	8.1	4.5	2.5	1.4
23	2.5	1.9	1.6	e1.5	e1.7	1.7	7.0	11	7.7	4.1	2.4	1.4
24	2.5	2.0	1.5	e1.6	e1.6	1.6	7.9	12	7.3	3.8	2.9	1.4
25	2.4	1.9	e1.6	e1.7	e1.6	1.7	9.0	13	7.0	3.6	2.6	1.4
26	2.4	1.8	e1.5	e1.8	e1.6	1.6	9.4	13	6.9	3.6	2.4	1.4
27	2.4	1.9	e1.5	e1.8	e1.6	1.7	11	13	6.7	3.5	2.3	1.8
28	2.4	1.9	e1.6	e1.8	e1.7	1.5	13	12	6.6	3.4	2.2	1.8
29	2.3	1.9	e1.7	e1.8	---	e1.6	14	12	6.8	3.4	2.1	1.7
30	2.2	1.7	e1.6	e1.8	---	e1.9	15	12	6.7	3.3	2.0	1.7
31	2.2	---	e1.6	e1.9	---	1.9	---	13	---	3.2	2.0	---
TOTAL	80.3	60.0	53.4	51.1	47.5	65.1	159.1	344.0	284.7	144.6	80.8	50.1
MEAN	2.59	2.00	1.72	1.65	1.70	2.10	5.30	11.1	9.49	4.66	2.61	1.67
MAX	3.1	2.2	2.1	1.9	2.0	3.7	15	13	13	6.3	3.2	2.0
MIN	2.2	1.7	1.5	1.5	1.5	1.5	2.3	8.7	6.6	3.2	2.0	1.4
AC-FT	159	119	106	101	94	129	316	682	565	287	160	99

CAL YR 1986	TOTAL	3740.6	MEAN	10.2	MAX	105	MIN	1.0	AC-FT	7420
WTR YR 1987	TOTAL	1420.7	MEAN	3.89	MAX	15	MIN	1.4	AC-FT	2820

e Estimated

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT

LOCATION.--Lat 37°37'19", long 112°31'07", in NE¼NW¼SW¼ sec.3, T.37 S., R.6 W., Garfield County, Hydrologic Unit 16030001, on left bank 0.5 mi upstream from West Hatch ditch diversion, 2 mi upstream from Spring Hollow, 4.5 mi upstream from mouth, and 5 mi southwest of Hatch.

DRAINAGE AREA.--105 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,300 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion for irrigation above station.

AVERAGE DISCHARGE.--23 years, 52.7 ft^3/s, 38,180 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 838 ft^3/s June 19, 1983, gage height, 5.13 ft; minimum recorded, 0.06 ft^3/s Dec. 25, 1977, Jan. 1, 22, 1978, result of ice jam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 18	0030	*332	*3.62	July 30	1530	306	3.47

Minimum daily discharge, 13 ft^3/s Mar. 24-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	25	e19	e17	e15	e14	28	201	100	41	30	21
2	28	25	e18	e17	e15	e15	29	203	97	39	28	21
3	27	24	e18	e17	e16	e15	20	183	93	38	28	20
4	26	23	e18	e16	e16	e16	18	183	90	34	27	21
5	25	23	e19	e15	e15	e17	17	209	89	34	26	21
6	24	23	e19	e14	e15	19	18	237	88	33	26	21
7	24	23	e19	e15	e15	18	19	237	85	32	27	21
8	25	24	e19	e15	e15	19	18	244	83	32	37	21
9	27	26	e17	e14	e15	22	18	256	81	31	32	20
10	28	26	e15	e14	e15	24	17	232	78	31	32	20
11	30	24	e15	e15	e16	25	17	218	76	30	30	20
12	31	22	e15	e16	e17	29	17	214	73	30	30	19
13	29	21	e15	e16	e19	28	16	229	70	30	34	20
14	27	21	e15	e16	e19	20	17	226	68	29	30	20
15	26	21	e16	e16	e19	17	20	225	66	29	28	20
16	25	21	e17	e15	e18	16	25	226	62	28	27	19
17	25	21	e17	e14	e16	16	35	277	60	31	25	19
18	26	22	e17	e14	e15	14	52	283	57	32	24	19
19	27	22	e17	e14	e15	15	59	256	56	30	23	18
20	27	21	e17	e14	e14	14	52	232	54	32	24	18
21	26	21	e17	e14	e14	14	42	204	53	45	24	18
22	25	21	e16	e14	e14	14	46	178	52	52	24	18
23	25	21	e15	e14	e14	e14	60	163	50	49	29	18
24	24	e20	e15	e14	e14	e13	78	152	48	39	28	18
25	23	e20	e15	e14	e14	e13	85	141	47	32	28	18
26	23	e19	e15	e15	e14	e13	84	129	45	30	25	18
27	23	e18	e15	e15	e14	13	89	125	45	32	23	18
28	23	e18	e15	e15	e14	e14	111	126	44	31	23	17
29	23	e19	e16	e15	---	14	148	121	44	30	23	17
30	23	e20	e17	e15	---	e15	175	113	43	48	22	17
31	25	---	e17	e15	---	18	---	105	---	33	21	---
TOTAL	796	655	515	464	432	528	1430	6128	1997	1067	839	576
MEAN	25.7	21.8	16.6	15.0	15.4	17.0	47.7	198	66.6	34.4	27.0	19.2
MAX	31	26	19	17	19	29	175	283	100	52	37	21
MIN	23	18	15	14	14	13	16	105	43	28	21	17
AC-FT	1580	1300	1020	920	857	1050	2840	12150	3960	2120	1660	1140

CAL YR 1986 TOTAL 18663 MEAN 51.1 MAX 371 MIN 12 AC-FT 37020
WTR YR 1987 TOTAL 15426 MEAN 42.3 MAX 283 MIN 13 AC-FT 30600

e Estimated

10174500 SEVIER RIVER AT HATCH, UT

LOCATION.--Lat 37°39'04", long 112°25'46", in SW¼SW¼NW¼ sec.28, T.36 S., R.5 W., Garfield County, Hydrologic Unit 16030001, on right bank at highway bridge, 0.2 mi east of Hatch, and 2.8 mi downstream from Mammoth Creek.

DRAINAGE AREA.--340 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1911 to September 1928, June 1939 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Hatchtown" 1911 and as "near Hatch" 1912.

REVISED RECORDS.--WSP 960: 1939-40. WSP 1284: 1916. WSP 1564: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,870 ft from river-profile map. See WSP 1734 for history of changes prior to Oct. 4, 1949. Relocated at present site Aug. 22, 1978.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions for irrigation above station. No regulation since Hatchtown Dam failed in 1914.

AVERAGE DISCHARGE.--65 years, 126 ft^3/s, 92,290 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge not determined, occurred May 25, 1914, when Hatchtown Dam failed; maximum recorded, 1,490 ft^3/s May 26, 1922, gage height, 5.25 ft, datum then in use; minimum daily, 10 ft^3/s for several days in 1912 when water was stored in Hatchtown Reservoir. Minimum natural flow, 20 ft^3/s Aug. 30, 31, Sept. 1, 7-9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 18	0330	*341	*1.96				

Minimum daily discharge, 51 ft^3/s Jan. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	85	72	63	60	e56	e74	264	179	97	82	67
2	101	86	74	67	60	58	e80	270	174	95	82	62
3	93	81	72	65	62	59	83	262	170	93	81	61
4	89	79	72	65	64	73	73	259	167	91	81	63
5	87	81	72	65	60	116	69	275	167	89	82	66
6	85	82	75	66	59	124	72	302	168	87	82	68
7	85	80	74	65	61	111	75	301	168	84	89	70
8	85	78	73	65	62	116	e80	299	164	84	102	67
9	89	78	72	e60	61	123	e90	310	162	81	95	66
10	88	78	e64	e62	63	100	e94	288	157	80	90	63
11	91	86	e64	e64	e63	100	e92	283	155	79	98	62
12	90	85	e66	e64	e82	95	e90	266	153	79	110	61
13	88	83	e68	e62	e72	100	e90	272	147	78	116	63
14	84	82	68	e61	e70	84	e100	264	149	76	93	64
15	81	78	70	e58	62	e77	e113	269	142	77	86	61
16	79	77	68	e52	53	e62	e132	276	134	78	82	59
17	79	76	70	e51	58	e64	e140	296	132	82	77	59
18	79	83	66	e54	58	e68	152	316	122	84	74	59
19	79	84	69	e54	59	e66	164	303	122	81	70	59
20	82	77	72	e52	56	e64	157	287	118	90	72	57
21	81	73	69	e54	e54	e64	144	272	116	111	73	57
22	77	69	e61	e55	59	e64	141	250	112	109	88	57
23	77	68	e62	e55	58	e60	151	236	109	107	117	58
24	77	71	e61	e54	56	e62	169	222	107	96	137	59
25	78	70	e61	57	e53	e66	182	212	103	84	97	58
26	77	71	e60	57	58	e72	178	205	101	83	86	56
27	77	72	e62	57	e52	e70	183	200	101	85	84	59
28	77	75	e62	61	e54	e62	196	212	100	86	77	56
29	78	74	e60	60	---	e61	223	202	102	85	75	56
30	78	74	e62	58	---	e66	247	192	102	102	74	57
31	81	---	e60	59	---	e70	---	183	---	91	70	---
TOTAL	2579	2336	2081	1842	1699	2433	3834	8048	4103	2724	2708	1830
MEAN	83.2	77.9	67.1	59.4	60.7	78.5	128	260	137	87.9	87.4	61.0
MAX	101	86	75	67	82	124	247	316	179	111	137	70
MIN	77	68	60	51	52	56	69	183	100	76	70	56
AC-FT	5120	4630	4130	3650	3370	4830	7600	15960	8140	5400	5370	3630

CAL YR 1986 TOTAL 41313 MEAN 113 MAX 364 MIN 60 AC-FT 81940
WTR YR 1987 TOTAL 36217 MEAN 99.2 MAX 316 MIN 51 AC-FT 71840

e Estimated

10174500 SEVIER RIVER AT HATCH, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1985 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD:
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,000 mg/L Aug. 23, 1987; minimum daily mean, 5 mg/L several days during July, 1986.
SEDIMENT LOADS: Maximum daily, 1,900 tons Aug. 23, 1987; minimum daily, 1.2 tons July 29, 31, Oct. 27, Nov. 16, 1986.

EXTREMES FOR CURRENT YEAR:
SEDIMENT CONCENTRATIONS: Maximum daily mean, 6,000 mg/L Aug. 23; minimum daily mean, 6 mg/L Oct. 27, Nov. 16.
SEDIMENT LOADS: Maximum daily, 1,900 tons Aug. 23; minimum daily, 1.2 tons Oct. 27, Nov. 16.

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18	4.2	18	4.1	17	3.3	27	4.6	95	15	25	3.8
2	48	13	16	3.7	21	4.2	27	4.9	67	11	40	6.3
3	13	3.3	13	2.8	17	3.3	26	4.6	30	5.0	45	7.2
4	8	1.9	12	2.6	18	3.5	26	4.6	68	12	150	30
5	8	1.9	10	2.2	22	4.3	22	3.9	49	7.9	330	103
6	10	2.3	10	2.2	26	5.3	23	4.1	32	5.1	320	107
7	10	2.3	11	2.4	23	4.6	20	3.5	35	5.8	240	72
8	10	2.3	9	1.9	22	4.3	19	3.3	39	6.5	260	81
9	12	2.9	12	2.5	22	4.3	23	3.7	37	6.1	270	90
10	8	1.9	18	3.8	37	6.4	23	3.9	39	6.6	190	51
11	9	2.2	20	4.6	32	5.5	20	3.5	35	6.0	150	40
12	8	1.9	18	4.1	22	3.9	12	2.1	107	24	110	28
13	13	3.1	17	3.8	25	4.6	12	2.0	75	15	90	24
14	18	4.1	16	3.5	23	4.2	21	3.5	80	15	56	13
15	11	2.4	10	2.1	21	4.0	18	2.8	58	9.7	53	11
16	10	2.1	6	1.2	16	2.9	19	2.7	72	12	41	6.9
17	15	3.2	7	1.4	14	2.6	19	2.6	62	9.7	46	7.9
18	15	3.2	9	2.0	14	2.5	19	2.8	60	9.4	53	9.7
19	17	3.6	17	3.9	13	2.4	13	1.9	42	6.7	53	9.4
20	19	4.2	10	2.1	30	5.8	18	2.5	32	4.8	47	8.1
21	18	3.9	15	3.0	39	7.3	14	2.0	49	7.1	46	7.9
22	12	2.5	10	1.9	33	5.4	12	1.8	59	9.4	45	7.8
23	12	2.5	11	2.0	36	6.0	40	5.9	40	6.3	39	6.3
24	10	2.1	12	2.3	34	5.6	43	6.3	76	11	40	6.7
25	9	1.9	16	3.0	32	5.3	60	10	54	7.7	50	8.9
26	7	1.5	15	2.9	28	4.5	56	8.6	35	5.5	55	11
27	6	1.2	15	2.9	29	4.9	50	7.7	44	6.2	53	10
28	7	1.5	15	3.0	29	4.9	48	7.9	37	5.4	40	6.7
29	8	1.7	23	4.6	27	4.4	85	14	---	---	39	6.4
30	8	1.7	14	2.8	27	4.5	50	7.8	---	---	50	8.9
31	11	2.4	---	---	26	4.2	23	3.7	---	---	53	10
TOTAL	---	88.9	---	85.3	---	138.9	---	143.2	---	251.9	---	799.9

10174500 SEVIER RIVER AT HATCH, UT--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DAY	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)	MEAN CONCEN-TRATION (MG/L)	LOADS (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	61	12	380	271	43	21	39	10	81	18	34	6.2
2	320	69	510	372	50	23	28	7.2	86	19	24	4.0
3	320	72	440	311	48	22	19	4.8	53	12	23	3.8
4	78	15	220	154	42	19	20	4.9	43	9.4	49	8.3
5	57	11	280	208	44	20	20	4.8	43	9.5	42	7.5
6	57	11	630	514	40	18	20	4.7	40	8.9	45	8.3
7	60	12	510	414	39	18	18	4.1	240	58	80	15
8	88	19	530	428	38	17	23	5.2	420	116	45	8.1
9	88	19	470	393	36	16	23	5.0	220	56	24	4.3
10	70	18	270	210	33	14	21	4.5	90	22	27	4.6
11	90	22	370	283	30	13	25	5.3	70	17	29	4.9
12	75	18	250	188	28	12	35	7.5	270	80	53	8.7
13	75	18	200	147	27	11	23	4.8	210	62	42	7.1
14	77	21	370	264	25	10	22	4.5	220	55	26	4.5
15	157	48	210	153	24	9.2	19	4.0	77	18	26	4.3
16	230	82	220	164	21	7.6	26	5.5	60	13	31	4.9
17	297	112	500	400	21	7.5	22	4.9	48	10	22	3.5
18	420	172	430	367	20	6.6	32	7.3	38	7.6	20	3.2
19	360	159	240	196	18	5.9	27	5.9	36	6.8	22	3.5
20	218	92	130	101	23	7.3	140	34	35	6.8	27	4.2
21	149	58	120	88	18	5.6	320	96	39	7.7	20	3.1
22	173	66	180	121	30	9.1	130	38	5600	1330	23	3.5
23	85	35	200	170	13	3.8	67	19	6000	1900	21	3.3
24	385	176	97	58	9	2.6	36	9.3	2000	740	21	3.3
25	160	79	112	64	10	2.8	24	5.4	106	28	21	3.3
26	118	57	65	36	11	3.0	23	5.2	93	22	18	2.7
27	295	96	56	30	29	7.9	26	6.0	117	27	17	2.7
28	332	176	53	30	48	13	33	7.7	83	17	17	2.6
29	458	276	51	28	120	33	45	10	59	12	16	2.4
30	478	319	65	34	400	110	400	132	53	11	17	2.6
31	---	---	45	22	---	---	340	84	48	9.1	---	---
TOTAL	---	2340	---	6219	---	468.9	---	551.5	---	4708.8	---	148.4

TOTAL LOAD FOR YEAR: 15944.6 TONS.

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT

LOCATION.--Lat 38°06'15", long 112°20'06", in NE¼SW¼NW¼ sec.20, T.31 S., R.4 W., Garfield County, Hydrologic Unit 16030001, on left bank 2 mi upstream from Pine Creek and 6 mi southwest of Circleville.

DRAINAGE AREA.--986 mi^2.

PERIOD OF RECORD.--May to September 1912, April 1914 to September 1927 (fragmentary 1923, 1925-57), October 1949 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 1180: 1922(M). WSP 1314: 1916. WRD UT-75-1: 1969. WDR UT-78-1: Drainage area. WDR UT-83-1: 1972(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,240 ft from river-profile map. May 10 to Sept. 19, 1912, nonrecording gage at site 300 ft upstream at different datum. Apr. 23, 1914 to Sept. 30, 1927, and Nov. 21, 1949 to Aug. 6, 1954, water-stage recorder at site 300 ft upstream at datum 0.23 ft higher.

REMARKS.--Records good except for estimated daily values, which are poor. Many diversions above and below station.

AVERAGE DISCHARGE.--47 years (1914-22, 24, 1949-87), 149 ft^3/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft^3/s Dec. 26, 1971, June 2, 1983, gage height, 7.06 ft; minimum daily, 18 ft^3/s June 30, July 1, 5, 1960, June 23, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 1938 may have exceeded that of June 2, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 697 ft^3/s Aug. 8, gage height, 3.84 ft; minimum, 56 ft^3/s Sept. 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	137	140	e136	e140	137	153	174	139	87	92	100
2	127	136	140	e165	e133	134	177	186	126	83	78	78
3	135	136	142	e141	e145	137	207	187	122	75	72	81
4	129	133	141	e160	e151	144	206	186	119	77	81	76
5	121	131	147	e180	e140	184	192	179	117	72	74	76
6	119	132	150	e150	e135	267	190	187	126	71	72	76
7	117	131	156	e148	134	263	197	208	136	70	89	77
8	131	130	150	e147	134	239	201	197	133	68	384	77
9	132	127	148	e111	133	246	196	206	117	67	211	72
10	133	127	e142	e105	134	235	183	212	111	66	135	72
11	145	124	e140	e100	136	212	179	207	110	65	107	72
12	152	127	e150	e110	145	208	172	197	111	63	121	70
13	147	129	e142	e111	204	217	141	192	114	70	197	66
14	142	129	e160	e105	180	214	136	193	112	66	132	65
15	140	135	e150	e109	154	192	153	204	99	63	107	64
16	136	133	e155	e119	147	175	170	224	91	65	89	63
17	134	131	e147	e106	142	164	190	240	87	83	84	66
18	136	145	e162	e98	141	158	213	278	83	79	80	72
19	134	155	e160	e110	140	160	202	272	81	74	76	63
20	137	149	e148	e100	135	156	178	261	78	70	68	62
21	142	146	e152	e106	139	149	158	263	80	93	81	61
22	140	145	e151	e109	139	149	142	235	80	97	81	59
23	136	138	e153	e119	138	148	143	216	80	89	113	59
24	134	137	e169	e125	139	149	146	198	73	92	148	67
25	131	141	e140	e135	131	149	152	182	73	87	142	72
26	130	138	e132	e152	137	147	167	176	74	78	112	65
27	130	140	e147	e168	139	145	150	171	80	75	111	65
28	130	140	e129	e150	137	143	145	167	81	86	114	67
29	130	145	e138	e143	---	140	136	168	81	78	112	70
30	129	144	e137	e155	---	137	152	175	75	73	105	69
31	129	---	e122	e158	---	141	---	152	---	91	103	---
TOTAL	4125	4091	4540	4031	4002	5439	5127	6293	2989	2373	3571	2102
MEAN	133	136	146	130	143	175	171	203	99.6	76.5	115	70.1
MAX	152	155	169	180	204	267	213	278	139	97	384	100
MIN	117	124	122	98	131	134	136	152	73	63	68	59
AC-FT	8180	8110	9010	8000	7940	10790	10170	12480	5930	4710	7080	4170

CAL YR 1986 TOTAL 50869 MEAN 139 MAX 481 MIN 62 AC-FT 100900
WTR YR 1987 TOTAL 48683 MEAN 133 MAX 384 MIN 59 AC-FT 96560

e Estimated

10183500 SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°12'22", long 112°12'25", in SE¼NE¼NW¼ sec.16, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030001, on left bank 1,000 ft upstream from bridge on State Highway 22, 1.1 mi west of Kingston, and 1.9 mi upstream from East Fork.

DRAINAGE AREA.--1,131 mi².

PERIOD OF RECORD.--June 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft from river-profile map. Prior to Sept. 20, 1918, at site 1 mi downstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--73 years, 129 ft³/s, 93,460 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,000 ft³/s (including estimated flow of 360 ft³/s in overflow channel bypassing station), Mar. 4, 1938, gage height, 5.20 ft from rating curve extended above 600 ft³/s; minimum, 0.90 ft³/s July 26, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 422 ft³/s Aug. 8, gage height, 2.31 ft; minimum daily discharge, 16 ft³/s July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	166	182	e168	179	182	179	26	71	30	30	30
2	109	167	182	e173	174	183	198	41	48	27	29	30
3	116	165	184	e179	184	184	231	56	36	28	24	32
4	117	163	185	e173	194	183	235	57	33	26	24	37
5	112	163	189	e180	184	211	219	49	37	25	24	40
6	111	163	199	e172	182	281	209	65	29	22	27	50
7	117	165	205	e170	179	303	218	78	29	22	33	52
8	127	165	198	e160	179	295	224	85	28	21	219	52
9	134	163	194	e165	179	284	216	82	29	20	106	57
10	133	164	e160	e155	179	288	178	93	30	21	39	47
11	146	156	e164	e130	182	270	172	93	30	21	31	43
12	171	125	e172	e140	182	256	171	86	32	23	41	36
13	168	136	e163	e147	231	254	164	79	29	22	103	32
14	163	167	e168	e158	237	259	132	84	28	21	68	33
15	166	171	e175	e158	213	244	131	114	29	21	43	32
16	162	172	e177	e180	197	224	142	126	31	18	40	30
17	157	171	e165	e135	196	211	141	147	30	18	38	32
18	159	180	e180	e114	190	203	149	174	28	18	35	31
19	156	194	e170	e135	188	200	150	287	27	21	30	31
20	153	193	e165	e128	184	200	106	258	30	23	27	31
21	163	188	e170	e121	181	190	79	247	27	29	34	33
22	162	188	e171	e120	182	189	53	213	24	24	47	36
23	159	183	e172	e130	181	190	43	179	24	21	61	31
24	155	179	e171	e140	180	189	48	161	23	20	62	36
25	152	181	e170	e145	178	187	37	144	24	20	100	42
26	151	183	e168	179	177	184	39	131	23	19	84	40
27	149	183	e167	185	181	181	40	108	24	20	63	42
28	146	183	e162	193	181	178	32	104	30	21	56	39
29	149	187	e155	190	---	171	34	102	31	23	69	35
30	149	187	e153	184	---	168	28	113	31	26	36	38
31	151	---	e170	179	---	172	---	95	---	27	29	---
TOTAL	4451	5151	5408	4866	5254	6714	3998	3671	925	698	1652	1130
MEAN	144	172	174	157	188	217	133	118	30.8	22.5	53.3	37.7
MAX	171	194	205	193	237	303	235	287	71	30	219	57
MIN	88	125	155	114	177	168	28	26	23	18	24	30
AC-FT	8830	10220	10730	9650	10420	13320	7930	7280	1830	1380	3280	2240

CAL YR 1986 TOTAL 44518 MEAN 122 MAX 500 MIN 17 AC-FT 88300
WTR YR 1987 TOTAL 43918 MEAN 120 MAX 303 MIN 18 AC-FT 87110

e Estimated

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT

LOCATION.--Lat 37°34'33", long 112°15'54", in NE¼SE¼NW¼ sec.19, T.37 S., R.4 W., Garfield County. Hydrologic Unit 16030002, Dixie National Forest, on left bank about 100 ft upstream from highway bridge, 0.6 mi downstream from Skunk Creek, 3.6 mi upstream from Tropic Reservoir Dam, 9.1 mi southwest of Rubys Inn, and 10.5 mi southeast of Hatch.

DRAINAGE AREA.--71.8 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WRD UT-74-1: 1973.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,830 ft from river-profile map. Prior to October 10, 1966, on right bank at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversions above station.

AVERAGE DISCHARGE.--26 years, 17.7 ft³/s, 12,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 448 ft³/s May 23, 1980, gage height, 3.28 ft; no flow for several days in February and March 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 17	2200	*74	*2.16	No other peak greater than base discharge.			

Minimum daily, 5.1 ft³/s July 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	15	e13	e11	e9.7	e9.8	e28	35	16	7.5	7.7	8.2
2	33	17	e13	e12	e9.4	e11	e31	33	15	6.9	8.0	7.8
3	24	18	e13	e13	e10	e12	e32	31	14	6.5	8.5	7.8
4	19	16	e14	e12	e9.3	e13	e31	30	14	6.3	7.6	8.1
5	17	15	e14	e14	e8.4	e14	e28	29	14	6.0	7.7	8.4
6	16	14	e13	e12	e9.4	e14	e29	28	14	5.7	8.3	8.9
7	15	14	e13	e11	e10	e15	e31	27	14	5.7	11	9.6
8	15	16	e12	e9.6	e10	e14	e32	26	13	5.4	17	8.2
9	15	e15	e11	e9.2	e10	e15	e33	25	13	5.1	12	7.7
10	16	e13	e10	e9.4	e11	e13	e34	25	12	5.1	14	7.7
11	29	e12	e11	e9.8	e11	e13	e36	24	11	5.2	9.0	7.7
12	23	e13	e11	e10	e10	e12	e31	25	11	5.2	11	7.6
13	18	e13	e11	e9.6	e11	e12	e27	25	11	5.8	18	10
14	17	e13	e12	e9.7	e10	e13	e40	23	11	5.8	10	13
15	16	e14	e12	e9.0	e9.7	e13	e45	26	10	5.7	8.4	10
16	15	e14	e13	e9.6	e9.2	e12	e47	30	9.6	6.7	7.5	9.2
17	15	e14	e12	e8.4	e10	e13	e50	36	9.3	8.5	7.0	8.5
18	14	e13	e12	e9.5	e9.7	e12	51	28	8.9	6.9	6.6	8.7
19	14	e15	e13	e9.0	e10	e14	47	26	8.7	5.7	6.3	8.0
20	15	e15	e14	e8.0	e11	e13	40	24	8.5	12	6.7	7.6
21	15	e14	e13	e7.6	e9.2	e12	41	26	8.1	17	9.1	7.6
22	14	e13	e11	e7.8	e9.8	e11	43	23	7.9	8.8	12	7.5
23	14	e14	e11	e8.2	e11	e13	41	21	7.7	7.1	22	7.5
24	14	e14	e11	e8.4	e10	e12	39	22	7.5	6.4	21	7.9
25	13	e14	e11	e8.8	e9.4	e12	37	21	7.4	6.0	12	8.4
26	13	e13	e11	e8.9	e10	e16	38	21	7.8	6.4	10	9.2
27	13	e12	e11	e9.3	e9.0	e14	37	21	9.3	7.4	12	9.4
28	13	e13	e10	e11	e8.3	e14	36	20	9.6	7.1	14	9.0
29	13	e13	e10	e10	---	e14	36	20	9.9	7.6	11	8.3
30	13	e14	e10	e9.7	---	e14	37	20	9.2	8.1	9.6	8.0
31	14	---	e10	e9.8	---	e14	---	17	---	10	8.8	---
TOTAL	513	423	366	305.3	275.5	403.8	1108	788	322.4	219.6	333.8	255.5
MEAN	16.5	14.1	11.8	9.85	9.84	13.0	36.9	25.4	10.7	7.08	10.8	8.52
MAX	33	18	14	14	11	16	51	36	16	17	22	13
MIN	13	12	10	7.6	8.3	9.8	27	17	7.4	5.1	6.3	7.5
AC-FT	1020	839	726	606	546	801	2200	1560	639	436	662	507

CAL YR 1986 TOTAL 5509.6 MEAN 15.1 MAX 56 MIN 4.9 AC-FT 10930
WTR YR 1987 TOTAL 5313.9 MEAN 14.6 MAX 51 MIN 5.1 AC-FT 10540

e Estimated

10188000 OTTER CREEK RESERVOIR NEAR ANTIMONY, UT

LOCATION.--Lat 38°10'15", long 112°01'25", in NW¼SW¼NW¼ sec.28, T.30 S., R.2 W., Piute County, Hydrologic Unit 16030002, near spillway on right side of dam on Otter Creek, 3.7 mi northwest of Antimony and 9.3 mi east of Kingston.

DRAINAGE AREA.--373 mi^2.

PERIOD OF RECORD.--January 1914 to September 1915, January 1934 to current year. Published as "near Coyote" 1914.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage read intermittantly and on last day of each month. Altitude of gage is 6,350 ft by barometer.

REMARKS.--Reservoir was formed in 1898 by a 15-ft earthfill, rock-faced dam which was raised some each year to the ultimate height of 45 ft in 1915. The dam has a concrete core through the center. Capacity, 52,700 acre-ft between gage height zero (bottom of outlet gage) and 36.0 ft (top of flashboards on spillway). At times, additional flashboards are added or surcharge occurs increasing the stage to 37.0 ft, capacity, 55,200 acre-ft. Spillway crest is at gage height 33.5 ft. Figures given herein represent total contents. Reservoir stores water from Otter Creek and also water diverted from East Fork Sevier River, for irrigation in Sevier River basin.

COOPERATION.--Gage-height record provided by Otter Creek Reservoir Company. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 56,760 acre-ft May 31, 1982, gage height, 37.8 ft; minimum observed, 200 acre-ft Sept. 10, 1956, gage height, 1.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 52,660 acre-ft several days during February, March, April, and May, gage height, 36.0 ft; minimum observed, 30,910 acre-ft Aug. 11, Sept. 7, 14, gage height, 26.3 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	30.1	38,770	-
Oct. 31	31.3	41,430	+2,660
Nov. 30	32.8	44,870	+3,440
Dec. 31	34.9	49,930	+5,060
CAL YR 1986	-	-	-240
Jan. 31	35.1	50,420	+490
Feb. 28	36.0	52,660	+2,240
Mar. 31	35.9	52,410	-250
Apr. 30	35.0	52,660	+250
May 31	35.5	51,420	-1,240
June 30	32.1	43,250	-8,170
July 31	27.8	33,910	-9,340
Aug. 31	26.4	31,100	-2,810
Sept. 30	26.7	31,690	+590
WTR YR 1987	-	-	-7,080

* No gage reading, contents interpolated.

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT

LOCATION.--Lat 38°11'49", long 112°09'01", in NW¼SW¼SE¼ sec.13, T.30 S., R.3 W., Piute County, Hydrologic Unit 16030002, on left bank 1,500 ft upstream from bridge on State Highway 22, 2.2 mi east of Kingston, 4.6 mi upstream from mouth, and 10 mi downstream from Otter Creek.

DRAINAGE AREA.--1,207 mi².

PERIOD OF RECORD.--March 1913 to current year.

REVISED RECORDS.--WSP 750: 1931-32. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft from river-profile map. Prior to Apr. 29, 1914, staff gage at site 0.5 mi upstream at different datum. Apr. 29, 1914 to June 2, 1939, water-stage recorder at site 4,000 ft downstream at different datum. June 3, 1939 to July 29, 1970, water-stage recorder at site 2,500 ft downstream at different datum. July 30, 1970 to July 12, 1983, water stage recorder 60 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions for irrigation above and below station. Also diversion upstream for storage in Otter Creek Reservoir (see station 10188000); flow regulated by reservoir.

AVERAGE DISCHARGE.--74 years, 80.0 ft³/s, 57,960 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s May 12, 1941, gage height, 5.05 ft; minimum, 1.0 ft³/s Jan. 25, 1976, gage height, 0.52 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 469 ft³/s Apr. 17; minimum daily, 11 ft³/s Dec. 17, 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	77	12	e13	102	76	e144	e226	152	148	187	37
2	59	79	e12	e16	87	76	e154	e200	152	145	188	38
3	55	81	12	e17	101	79	e178	e165	155	144	188	37
4	53	81	12	89	113	81	e180	133	154	144	186	37
5	52	81	12	90	108	83	e174	128	169	146	186	38
6	52	80	13	90	101	96	e178	124	168	144	186	38
7	51	80	14	89	105	153	e178	120	177	143	187	40
8	55	81	13	90	99	203	e178	122	178	146	189	38
9	54	81	12	e89	98	210	e200	121	171	147	182	36
10	55	80	e17	e88	98	200	e212	117	167	149	180	38
11	59	79	e17	e87	39	190	e254	90	165	145	144	37
12	62	79	e18	e87	40	e163	e260	33	162	143	62	24
13	58	75	e18	e86	41	e176	e249	64	164	140	64	18
14	53	24	e18	e82	41	169	e271	138	162	136	47	20
15	51	21	22	e81	40	134	e318	144	154	136	44	21
16	50	15	17	e84	41	137	e360	152	152	136	43	21
17	50	14	11	e86	41	134	e469	145	154	136	42	22
18	49	14	11	e86	44	129	e428	140	149	134	43	23
19	48	15	14	77	46	124	e388	145	148	121	42	25
20	47	14	16	e83	55	120	e280	140	144	181	42	26
21	46	14	15	e85	59	117	e278	137	143	185	43	25
22	46	14	e14	e84	62	117	e271	132	140	180	41	21
23	47	13	e13	76	64	114	e337	134	142	179	37	16
24	46	12	e12	76	68	117	e406	137	145	182	34	13
25	47	13	e12	78	70	122	e355	138	143	185	33	14
26	47	13	e12	80	73	132	e355	137	145	183	31	14
27	45	e12	e13	80	73	120	e330	141	145	185	31	15
28	42	12	e14	80	74	111	e362	143	144	189	32	12
29	41	12	e13	83	---	106	e388	142	143	191	36	12
30	43	12	e12	110	---	105	e285	145	143	191	36	13
31	44	---	e12	111	---	108	---	150	---	188	35	---
TOTAL	1563	1278	433	2453	1983	4002	8420	4183	4630	4902	2621	789
MEAN	50.4	42.6	14.0	79.1	70.8	129	281	135	154	158	91.0	25.6
MAX	62	81	22	111	113	210	469	226	178	191	189	40
MIN	41	12	11	13	39	76	144	33	140	121	31	12
AC-FT	3100	2530	859	4870	3930	7940	16709	8300	9180	9720	5600	1530

CAL YR 1986 TOTAL 30667 MEAN 84.0 MAX 229 MIN 11 AC-FT 60830
WTR YR 1987 TOTAL 37437 MEAN 103 MAX 469 MIN 11 AC-FT 74260

e Estimated

10191000 PIUTE RESERVOIR NEAR MARYSVALE, UT

LOCATION.--Lat 38°19'26", long 112°11'26", in NW¼NE¼NW¼ sec.3, T.29 S., R.3 W., Piute County, Hydrologic Unit 16030001, at Piute Dam on Sevier River, 9.0 mi south of Marysvale.

DRAINAGE AREA.--2,438 mi^2.

PERIOD OF RECORD.--March 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage read at irregular intervals. Datum of gage is 5,900.8 ft NGVD of 1929 (levels by Office of State Engineer).

REMARKS.--Reservoir is formed by earthfill dam; storage began in summer of 1910. Capacity, 71,830 acre-ft between gage heights 10 ft (approximate bottom of reservoir) and 76 ft (top of flashboards on spillway since 1941). Spillway crest is at gage height 70.2 ft. No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1960, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 83,050 acre-ft June 5, 1983, gage height, 79.8 ft, original capacity table; no contents at times in several years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 71,830 acre-ft several days in March and April, gage height, 76.0 ft; minimum observed, 16,760 acre-ft Sept. 26, gage height, 45.0 ft.

MONTHEND ELEVATION, IN FEET, AND INSTANTANEOUS CONTENTS, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	49.8	23,100	-
Oct. 31	58.8	37,100	+14,000
Nov. 30	65.8	49,690	+12,590
Dec. 31	71.0	60,140	+10,450
CAL YR 1986	-	-	+13,640
Jan. 31	73.4	65,460	+5,320
Feb. 28	72.6	63,630	-1,830
Mar. 31	75.5	70,540	+6,910
Apr. 30	75.1	69,520	-1,020
May 31	72.3	62,960	-6,560
June 30	65.3	48,740	-14,220
July 31	58.3	36,250	-12,490
Aug. 31	48.7	21,570	-14,270
Sept. 30	45.0	17,760	-4,220
WTR YR 1987	-	-	-5,340

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UTAH

LOCATION.--Lat 38°19'43", long 112°11'30", in NW¼SW¼SE¼ sec.34, T.28 S., R.3 W., Piute County, Hydrologic Unit 16030003, on left bank 0.25 mi downstream from Piute Dam and 8.5 mi south of Marysvale.

DRAINAGE AREA.--2,440 mi².

PERIOD OF RECORD.--May to August 1911, May 1912 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,870 ft by barometer. Prior to May 4, 1912, nonrecording gage at site 0.25 mi upstream at different datums. May 4, 1912 to Mar. 31, 1935, water-stage recorder at site 0.05 mi upstream at different datum. Apr. 1, 1935 to Apr. 7, 1936, at datum 0.7 ft higher. Apr. 8, 1936 to Feb. 25, 1970, at datum 0.5 ft higher. Feb. 26, 1970 to Apr. 22, 1979 at site 0.25 mi downstream at different datum. Apr. 22, 1979 to Sept. 30, 1985, at datum 10.0 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Piute Reservoir (see station 10191000).

AVERAGE DISCHARGE.--75 years (1912-87), 219 ft³/s, 158,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,600 ft³/s May 23, 24, 1922, gage height, 4.45 ft site and datum then in use; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 754 ft³/s June 25; minimum daily discharge, 5.8 ft³/s Dec. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	33	11	6.2	166	241	335	508	266	604	208	242
2	6.4	32	10	68	165	75	309	505	269	604	253	230
3	6.2	22	10	210	166	43	262	500	253	599	315	229
4	6.3	12	10	211	168	14	262	494	238	591	360	232
5	5.9	12	11	212	201	17	262	474	237	572	390	232
6	6.0	12	11	212	256	21	264	449	235	562	464	201
7	6.0	11	11	212	260	21	280	449	230	547	522	137
8	5.9	11	11	212	259	20	351	450	193	545	562	107
9	5.9	11	11	212	263	20	362	454	175	547	558	107
10	6.2	11	11	212	271	20	361	454	154	553	524	109
11	6.2	11	11	212	271	20	363	456	164	591	515	110
12	6.4	11	11	212	281	20	449	448	216	545	495	145
13	6.4	11	11	212	295	236	430	439	223	451	475	161
14	6.7	11	9.6	212	257	339	430	418	252	446	434	159
15	7.0	11	8.5	212	298	302	398	386	375	402	421	159
16	7.2	11	7.9	e212	296	349	396	340	443	372	410	148
17	7.2	11	7.5	e212	296	396	467	324	466	291	405	124
18	7.2	11	7.2	e125	298	396	519	298	507	270	433	115
19	7.2	11	7.2	e13	302	396	519	257	576	252	442	115
20	7.3	11	7.0	e13	302	396	548	257	658	260	442	128
21	7.9	11	6.8	e13	303	396	552	222	657	328	456	138
22	7.9	11	6.5	e13	307	396	535	210	681	317	448	119
23	22	11	6.4	12	308	358	485	289	705	244	431	110
24	[illegible]	11	6.4	12	310	335	482	364	718	234	410	109
25	36	11	6.4	12	313	335	509	365	754	234	392	110
26	37	11	6.2	12	313	338	573	361	753	233	370	110
27	38	11	5.8	12	313	343	524	263	752	233	366	112
28	29	11	6.2	12	313	342	524	266	747	250	358	112
29	31	11	6.2	81	---	341	518	266	719	259	317	112
30	31	11	6.2	162	---	341	515	267	687	251	310	85
31	32	---	6.2	164	---	341	---	266	---	208	265	---
TOTAL	443.6	387	264.2	3907.2	7589	7208	12784	11499	13303	12395	12751	4307
MEAN	14.3	12.9	8.52	126	271	233	426	371	443	400	411	144
MAX	41	33	11	212	313	396	573	508	754	604	562	242
MIN	5.9	11	5.8	6.2	165	14	262	210	154	208	208	85
AC-FT	880	768	524	7750	15050	14300	25360	22810	26390	24590	25290	8540

CAL YR 1986 TOTAL 69328.6 MEAN 190 MAX 645 MIN 3.3 AC-FT 137500
WTR YR 1987 TOTAL 86838.0 MEAN 238 MAX 754 MIN 5.8 AC-FT 172200

e Estimated

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT

LOCATION.--Lat 38°34'20", long 112°15'27", in NE¼NW¼NE¼ sec.5, T.26 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on right bank 0.6 mi upstream from bridge on U.S. Highway 89, 0.7 mi upstream from Clear Creek, and 1.0 mi south of Sevier.

DRAINAGE AREA.--2,707 mi².

PERIOD OF RECORD.--May 1911 to November 1916 (published as Sevier River at Sevier), April 1939 to September 1955, October 1960 to current year. Records for November 1916 to September 1929 (published as Sevier River at Sevier) include flow of Clear Creek and are not equivalent.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,560 ft by barometer. Prior to May 16, 1912, nonrecording gage, and May 16, 1912 to Sept. 30, 1929, water-stage recorder, at site 0.8 mi downstream at different datums (datum lowered 1.0 ft Mar. 31, 1913).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Many diversions above station for irrigation. Flow regulated by Piute Reservoir.

AVERAGE DISCHARGE.--47 years (1912-16, 1939-55, 1960-87), 249 ft³/s, 180,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--(Not including flow of Clear Creek): Maximum discharge, 2,500 ft³/s June 3, 1983, gage height, 4.82 ft; minimum, 2.3 ft³/s Dec. 13, 1964. 1916-29 (including flow of Clear Creek): Maximum discharge, 2,800 ft³/s during last week of May 1922, computed on basis of records for station near Marysvale; minimum, 9.8 ft³/s March 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 764 ft³/s June 29; minimum daily discharge, 25 ft³/s Jan. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e50	72	33	e37	e195	350	365	601	326	689	294	309
2	46	71	34	e39	e198	334	364	591	330	647	291	295
3	44	70	34	e150	e199	305	320	582	336	641	370	289
4	43	56	33	e240	e200	168	280	576	333	636	413	285
5	40	40	34	e242	e200	40	260	569	330	631	448	285
6	39	38	36	e242	e220	40	250	538	341	608	499	284
7	39	39	37	e242	e250	42	243	538	353	604	557	240
8	38	37	35	e240	e270	40	317	544	351	589	624	158
9	37	35	37	e243	e320	40	381	540	331	592	633	145
10	36	38	e46	e245	e330	38	385	541	321	591	615	141
11	39	46	e35	e245	e335	37	386	541	310	619	590	139
12	42	40	e30	e248	e340	36	422	546	299	628	594	139
13	39	36	e32	e249	e345	39	454	543	314	563	581	185
14	38	37	e32	e250	347	222	449	540	325	518	544	186
15	39	36	e32	e250	346	223	437	507	365	495	503	186
16	39	36	31	e249	346	332	433	521	501	471	495	185
17	39	38	31	e245	346	409	453	488	502	413	481	165
18	38	36	33	e240	346	420	552	511	529	379	486	140
19	36	39	34	e220	346	425	548	444	550	354	507	137
20	38	36	34	e100	345	427	547	399	629	324	510	136
21	37	37	33	e50	345	426	575	383	654	369	520	158
22	36	35	37	e30	348	429	572	335	654	398	518	158
23	35	35	52	e25	350	420	548	341	688	e355	506	131
24	54	34	47	e28	349	374	539	401	694	e305	496	129
25	80	36	45	e31	349	370	536	419	724	e265	462	129
26	77	37	46	e29	350	369	593	415	743	e240	445	130
27	78	36	46	e35	350	368	581	373	747	e225	428	131
28	76	35	45	e45	351	368	569	334	753	e220	416	129
29	66	37	e42	e60	---	368	587	334	764	e215	387	130
30	69	34	e39	e100	---	368	595	333	741	e230	358	130
31	70	---	e34	e190	---	369	---	330	---	e295	335	---
TOTAL	1475	1231	1149	4839	8616	8196	13541	14658	14838	14109	14906	5384
MEAN	47.6	41.0	37.1	156	308	264	451	473	495	455	481	179
MAX	80	72	52	250	351	429	595	601	764	689	633	309
MIN	35	34	30	25	195	36	243	330	299	215	291	129
AC-FT	2930	2440	2280	9600	17090	16260	26860	29070	29430	27990	29570	10680

CAL YR 1986 TOTAL 87749 MEAN 240 MAX 664 MIN 15 AC-FT 174100
WTR YR 1987 TOTAL 102942 MEAN 282 MAX 764 MIN 25 AC-FT 204200

e Estimated

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT

LOCATION.--Lat 38°34'45", long 112°17'22", in NW¼NW¼SW¼ sec.31, T.25 S., R.4 W., Sevier County, Hydrologic Unit 16030003, on left bank at south side of State Highway 13, 1.8 mi west of Sevier, 2.3 mi upstream from mouth, and 17.2 mi southwest of Richfield.

DRAINAGE AREA.--164 mi^2.

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,680 ft from topographic map.

REMARKS.--Records fair. Small diversions for irrigation above station. Flow regulated by several small reservoirs, combined capacity about 1,000 acre-ft, at headwaters.

AVERAGE DISCHARGE.--30 years, 38.8 ft^3/s, 28,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 769 ft^3/s Apr. 29, 1973, gage height, 4.41 ft; minimum, 1.5 ft^3/s Feb. 21, 1976, gage height, 0.85 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 158 ft^3/s May 18, gage height 1.84 ft; minimum daily, 3.5 ft^3/s Dec. 14-15, 24, 25, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	19	7.5	e4.5	e9.0	20	28	95	68	40	13	13
2	27	17	9.0	e4.9	e8.8	19	37	93	75	38	13	13
3	25	16	9.5	e4.1	e10	17	49	87	78	36	14	13
4	21	15	11	e4.7	e12	22	52	78	82	34	13	14
5	21	15	12	e5.4	e10	28	49	78	85	32	11	14
6	21	15	13	e4.9	e11	30	57	81	92	31	12	17
7	21	15	12	e4.7	e12	31	61	98	95	31	24	16
8	20	12	11	e4.9	e13	32	61	101	95	30	25	16
9	20	8.5	10	e4.6	14	33	59	101	89	29	23	14
10	20	13	e5.6	e4.5	15	29	59	101	84	28	21	13
11	25	11	e4.9	e4.8	15	29	61	101	80	29	17	13
12	23	12	e4.3	e5.4	19	31	56	100	79	34	23	13
13	19	11	e4.3	e5.6	19	36	47	101	77	e27	22	14
14	20	12	e3.5	e5.3	21	32	51	102	75	e25	18	14
15	20	11	e3.5	e4.7	16	30	59	109	73	e24	17	14
16	20	11	e3.8	e5.4	20	29	66	126	75	e23	16	14
17	19	11	e4.3	e4.1	16	26	77	138	68	23	15	13
18	20	12	e4.4	e4.6	16	25	86	143	63	21	14	13
19	19	16	e4.8	e5.1	16	26	81	136	60	20	13	13
20	19	14	e4.4	e4.8	15	22	69	128	58	20	13	13
21	19	13	e4.0	e4.5	16	20	65	119	57	26	16	12
22	18	13	e3.8	e4.4	17	23	69	111	55	26	16	12
23	18	11	e3.6	e4.7	18	19	76	106	53	18	21	12
24	17	10	e3.5	e5.2	17	19	82	101	50	17	20	12
25	16	12	e3.5	e6.0	16	20	81	97	49	16	18	12
26	16	9.0	e3.7	e6.8	19	19	77	92	48	16	17	13
27	15	9.5	e4.1	e8.4	17	20	85	88	46	18	16	14
28	15	11	e3.8	e11	17	17	90	83	46	19	15	12
29	15	12	e3.5	e9.5	---	18	93	76	45	18	14	12
30	15	12	e3.7	e9.3	---	17	94	69	43	16	14	13
31	17	---	e3.6	e9.6	---	21	---	65	---	15	13	---
TOTAL	603	379.0	183.6	176.4	424.8	760	1977	3104	2043	774	517	401
MEAN	19.5	12.6	5.92	5.69	15.2	24.5	65.9	100	68.1	25.0	16.7	13.4
MAX	27	19	13	11	21	36	94	143	95	40	25	17
MIN	15	8.5	3.5	4.1	8.8	17	28	65	43	15	11	12
AC-FT	1200	752	364	350	843	1510	3920	6160	4050	1540	1030	795

CAL YR 1986 TOTAL 26934.1 MEAN 73.8 MAX 397 MIN 3.5 AC-FT 53420
WTR YR 1987 TOTAL 11342.8 MEAN 31.1 MAX 143 MIN 3.5 AC-FT 22500

e Estimated

10205000 SEVIER RIVER NEAR SIGURD, UT

LOCATION.--Lat 38°52'13", long 111°57'14", in SW¼NE¼SW¼ sec.19, T.22 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on left bank 200 ft downstream from county road bridge, 0.5 mi downstream from Rocky Ford Dam, 2.3 mi northeast of Sigurd, and 5.0 mi upstream from Lost Creek.

DRAINAGE AREA.--3,375 mi^2.

PERIOD OF RECORD.--July to September 1912, July 1914 to current year. Prior to October 1938, published as "near Vermillion."

REVISED RECORDS.--WSP 1394: 1927-28, 1947.

GAGE.--Water-stage recorder. Altitude of gage is 5,180 ft by barometer. July to September 1912, nonrecording gage 0.3 mi downstream at different datum. July 31, 1914 to Apr. 19, 1917, nonrecording gage and Apr. 20, 1917 to Oct. 16, 1935, water-stage recorder, at present site at datum 2.00 ft lower.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by reservoirs above station. During irrigation season practically entire flow through Rocky Ford Dam is diverted above station for irrigation below station.

AVERAGE DISCHARGE.--73 years, 112 ft^3/s, 81,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,400 ft^3/s May 30, 1922, gage height, 6.1 ft, present datum, from rating curve extended above 600 ft^3/s on basis of maximum discharge for other Sevier River stations; practically no flow (seepage only) at times when Rocky Ford Reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 543 ft^3/s Mar. 21, gage height, 3.40 ft; minimum, 1.3 ft^3/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	147	129	138	213	430	437	17	30	25	57	26
2	136	154	128	146	213	429	418	15	25	25	56	52
3	131	146	128	148	213	360	400	21	25	24	49	61
4	178	141	131	163	241	271	396	28	40	23	38	52
5	144	145	132	310	324	215	399	31	49	23	31	46
6	132	141	138	357	327	195	397	45	61	23	18	56
7	127	137	147	368	354	157	384	48	96	24	9.2	104
8	124	134	148	381	384	103	357	33	139	25	6.4	125
9	121	131	147	387	391	102	351	28	147	25	6.3	117
10	120	128	142	414	395	102	359	31	135	24	13	127
11	130	128	134	425	399	104	381	37	121	24	e30	133
12	138	127	133	e360	407	153	390	47	80	27	e40	156
13	130	128	132	e330	413	181	404	56	46	27	47	174
14	132	129	134	e330	420	176	409	61	41	30	48	202
15	129	134	137	e330	431	367	386	61	34	36	39	235
16	127	132	137	e330	430	433	331	76	23	28	32	112
17	126	132	140	e330	434	430	344	80	23	48	17	87
18	123	132	138	e330	433	439	303	79	20	27	7.4	102
19	119	132	141	e330	428	459	317	94	20	36	4.0	82
20	119	125	148	e330	429	497	337	91	21	29	2.0	26
21	119	125	148	e330	427	531	217	78	21	38	2.2	8.1
22	120	127	142	e330	424	530	181	36	23	36	2.2	14
23	119	127	136	e330	426	532	150	15	24	45	2.3	15
24	119	126	134	e320	431	527	88	25	24	41	3.4	13
25	119	125	133	e300	432	512	76	48	25	39	7.6	7.0
26	121	126	135	188	431	467	69	107	25	25	6.7	3.2
27	127	125	132	176	433	447	37	171	25	23	2.4	3.8
28	130	120	138	174	431	456	23	174	25	30	5.3	3.8
29	144	125	136	171	---	456	27	150	26	37	5.2	4.0
30	134	131	136	164	---	455	23	91	26	52	4.1	9.5
31	141	---	138	202	---	454	---	51	---	55	8.4	---
TOTAL	4043	3960	4252	8942	10714	10970	8391	1925	1420	974	602.1	2156.4
MEAN	130	132	137	288	383	354	280	62.1	47.3	31.4	19.4	71.9
MAX	178	154	148	425	434	532	437	174	147	55	58	235
MIN	119	120	128	138	213	102	23	15	20	23	2.0	3.2
AC-FT	8020	7850	8430	17740	21250	21760	16640	3820	2820	1930	1190	4280

CAL YR 1986 TOTAL 57010.2 MEAN 156 MAX 633 MIN .50 AC-FT 113100
WTR YR 1987 TOTAL 58349.4 MEAN 160 MAX 532 MIN 2.0 AC-FT 115700

e Estimated

10205030 SALINA CREEK NEAR EMERY, UT

LOCATION.--Lat 38°54'43", long 111°31'47", in SE¼SW¼NW¼ sec.12, T.22 S., R.3 E., Sevier County, Hydrologic Unit 16030003, on right bank, 2.5 mi upstream from Soil Conservation Service retention dam, 15.3 mi west of Emery, and 18.4 mi east of Salina.

DRAINAGE AREA.--51.8 mi^2.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map. Prior to June 9, 197', at site 300 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion above station. Slight regulation from small reservoirs at headwaters.

AVERAGE DISCHARGE.--24 years, 20.3 ft^3/s, 14,710 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 621 ft^3/s May 27, 1983, gage height, 5.44 ft; minimum discharge, 0.80 ft^3/s Nov. 9, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 28	1900	*119	*3.51	May 6	2200	101	3.41

Minimum daily discharge, 3.0 ft^3/s Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	e9.4	e6.6	e4.2	e4.2	9.4	76	36	e10	8.0	9.9
2	14	11	e9.0	e6.8	e5.0	e5.0	11	72	34	e10	7.7	10
3	13	11	e9.4	e7.0	e4.5	e5.4	10	60	33	e10	7.7	10
4	13	11	e10	e7.3	e4.5	e5.6	10	58	32	e11	7.7	10
5	13	11	e8.5	e7.4	e4.5	e6.4	10	64	31	e11	7.7	10
6	12	11	e8.5	e7.4	e5.0	e5.6	12	75	31	e11	7.8	9.8
7	12	10	e8.5	e7.8	e5.5	e5.8	13	84	31	e11	12	10
8	12	e10	e8.0	e7.5	e5.6	e6.2	18	80	31	e12	13	10
9	12	e10	e7.8	e6.6	e5.6	e6.0	19	81	30	e10	12	9.9
10	12	10	e6.0	e5.4	e5.6	e5.6	19	76	30	e10	12	9.8
11	13	e10	e6.5	e5.6	e4.5	e5.8	21	75	30	e11	12	9.7
12	13	10	e7.0	e5.8	e4.9	e6.4	17	73	29	e13	12	9.7
13	12	10	e7.5	e5.8	e5.0	e7.2	14	79	28	e11	11	10
14	12	9.9	e7.5	e5.8	e5.0	e7.0	19	76	27	e11	11	11
15	12	9.9	e7.5	e5.6	e4.0	e7.0	25	71	26	e11	12	9.1
16	12	9.8	e7.0	e5.4	e3.9	e6.6	33	67	25	11	11	8.8
17	12	9.6	e7.0	e4.9	e4.0	e6.4	35	65	25	11	11	8.7
18	12	9.9	e7.5	e4.5	e4.1	e7.0	37	61	24	11	10	8.7
19	12	10	e7.0	e4.0	e4.5	e7.2	30	56	23	11	9.7	8.6
20	12	9.6	e7.0	e3.2	e4.5	e6.6	22	53	23	12	9.2	8.6
21	11	9.5	e7.0	e3.0	e4.0	e6.0	23	51	22	11	10	8.6
22	11	9.3	e7.5	e3.5	e4.0	e6.8	32	48	21	10	11	8.4
23	11	9.3	e7.0	e4.4	e4.2	e6.6	38	47	21	11	10	8.3
24	11	9.8	e7.0	e4.0	e4.0	e7.6	40	46	e16	10	9.7	8.3
25	11	9.3	e7.0	e4.5	e3.5	e7.6	39	45	e13	10	9.2	8.3
26	11	9.1	e7.0	e5.0	e3.5	e7.8	46	44	e11	9.8	9.7	8.3
27	11	e9.5	e7.0	e4.5	e3.5	e7.6	51	46	e12	8.6	11	8.3
28	11	e9.0	e7.0	e4.6	e4.0	e7.6	67	45	e12	8.8	10	8.3
29	11	e8.8	e7.0	e4.2	---	e8.0	84	42	e14	8.5	10	8.3
30	11	e8.8	e7.0	e4.2	---	e8.5	83	40	e12	8.5	10	8.2
31	11	---	e7.0	e4.3	---	e9.2	---	38	---	8.4	10	---
TOTAL	369	297.1	234.1	166.6	125.1	206.3	887.4	1894	733	323.6	315.1	275.6
MEAN	11.9	9.90	7.55	5.37	4.47	6.65	29.6	61.1	24.4	10.4	10.2	9.19
MAX	14	11	10	7.8	5.6	9.2	84	84	36	13	13	11
MIN	11	8.8	6.0	3.0	3.5	4.2	9.4	38	11	8.4	7.7	8.2
AC-FT	732	589	464	330	248	409	1760	3760	1450	642	625	547

CAL YR 1986 TOTAL 8657.8 MEAN 23.7 MAX 135 MIN 6.0 AC-FT 17170
WTR YR 1987 TOTAL 5826.9 MEAN 16.0 MAX 84 MIN 3.0 AC-FT 11560

e Estimated

10206000 SALINA CREEK AT SALINA, UT

LOCATION.--Lat 38°57'24", long 111°51'58", in SW¼NW¼NW¼ sec.25, T.21 S., R.1 W., Sevier County, Hydrologic Unit 16030003, on right bank 150 ft upstream from bridge on U.S. Highway 89 in Salina and 0.8 mi upstream from mouth.

DRAINAGE AREA.--292 mi^2.

PERIOD OF RECORD.--April to September 1914 (fragmentary), April 1915 to September 1916, October 1917 to September 1919, November 1942 to September 1955, water year 1960 (annual maximum), October 1960 to current year.

REVISED RECORDS.--WSP 1734: Drainage area. WSP 2127: 1953(M), 1960(M), 1965(M). WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,140 ft estimated on basis of nearby benchmark. Prior to Mar. 23, 1915, nonrecording gage at site 150 ft downstream at different datum. Mar. 23, 1915 to Oct. 16, 1917, nonrecording gage, and Oct. 17, 1917 to Sept. 30, 1919, water-stage recorder at site about 0.2 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above and below station for irrigation.

AVERAGE DISCHARGE.--42 years (water years 1916, 1918-19, 1944-55, 1961-87), 29.5 ft^3/s, 21,370 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,650 ft^3/s June 7, 1984, gage height, 8.32 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 441 ft^3/s July 27, gage height, 3.64 ft; minimum, 0.66 ft^3/s July 15, 16, Aug. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	36	e23	e18	e24	e25	e23	161	34	1.1	1.7	1.8
2	27	38	e23	e23	e23	e25	e28	157	34	.88	1.2	1.5
3	23	37	e23	e26	e20	e26	e24	88	29	.88	1.1	1.2
4	21	35	e22	e28	e20	e30	e24	69	29	.96	1.0	1.5
5	21	33	e20	e28	e22	45	e40	77	28	.97	.87	1.7
6	21	34	e20	e27	e25	47	e62	115	34	.96	.99	1.7
7	20	34	e19	e27	e26	48	e70	156	47	.94	24	2.0
8	23	33	e18	e26	e27	52	89	165	54	.94	28	2.2
9	25	26	e16	e20	e28	59	85	150	52	1.2	1.6	2.5
10	25	22	e15	e19	e29	43	84	133	47	.90	2.0	2.1
11	32	22	e16	e19	e30	41	85	109	27	1.2	1.7	1.8
12	37	23	e18	e20	e29	33	81	111	20	5.5	2.0	2.7
13	25	25	e18	e22	e27	50	29	119	16	2.4	2.3	2.0
14	26	26	e18	e24	e27	39	38	117	12	1.3	1.3	2.5
15	25	26	e18	e23	e22	20	78	152	12	.92	1.5	1.7
16	24	26	e17	e22	e25	11	113	188	8.6	.90	1.6	1.7
17	24	27	e18	e13	e25	e10	141	145	7.8	1.0	1.8	1.8
18	25	27	e19	e12	e25	e13	158	121	7.2	1.1	1.2	2.1
19	27	27	e19	e12	e25	e17	147	109	5.8	1.1	1.1	2.6
20	34	28	e17	e11	e26	e14	56	92	6.9	1.4	1.1	2.8
21	33	27	e19	e8.0	e28	e15	50	77	6.7	1.6	1.4	2.4
22	32	27	e18	e10	e27	e16	68	72	5.9	1.7	1.8	2.7
23	31	27	e17	e12	e26	e14	122	72	5.9	2.0	2.4	2.7
24	30	26	e17	e13	e26	e15	137	71	5.9	1.2	1.6	3.0
25	30	25	e14	e14	e21	e16	103	71	5.9	1.3	2.2	2.6
26	30	25	e14	e16	e22	e16	131	67	4.6	12	2.8	2.8
27	32	25	e17	e17	e23	e14	208	79	5.2	34	2.3	5.8
28	34	e24	e17	e20	e24	e13	205	69	6.7	17	1.8	7.7
29	34	e24	e19	e18	---	e12	197	55	25	3.9	2.2	6.1
30	34	e23	e18	e20	---	e16	190	50	16	1.3	2.2	4.9
31	35	---	e17	e21	---	e20	---	44	---	1.3	2.0	---
TOTAL	859	838	564	589.0	702	815	2866	3261	599.1	103.85	100.76	80.6
MEAN	27.7	27.9	18.2	19.0	25.1	26.3	95.5	105	20.0	3.35	3.25	2.69
MAX	37	38	23	28	30	59	208	188	54	34	28	7.7
MIN	19	22	14	8.0	20	10	23	44	4.6	.88	.87	1.2
AC-FT	1700	1660	1120	1170	1390	1620	5680	6470	1190	206	200	160

CAL YR 1986 TOTAL 23551.42 MEAN 64.5 MAX 413 MIN .96 AC-FT 46710
WTR YR 1987 TOTAL 11378.23 MEAN 31.2 MAX 208 MIN .87 AC-FT 22570

e Estimated

10208500 OAK CREEK NEAR FAIRVIEW, UT

LOCATION.--Lat 39°40'26", long 111°24'30", in NW¼NE¼SW¼ sec.19, T.13 S., R.5 E., Sanpete County, Hydrologic Unit 16030004, on right bank 2.1 mi upstream from mouth and 3.7 mi northeast of Fairview.

DRAINAGE AREA.--11.8 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WDR UT-77-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,550 ft from topographic map. Prior to Nov. 16, 1983, at datum 10.0 ft lower.

REMARKS.--No estimated daily discharges. Records good. No diversion or regulation above station.

AVERAGE DISCHARGE.--23 years, 12.9 ft^3/s, 9,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft^3/s May 30, 1983, gage height, 5.99 ft result of indirect measurement of peak flow; minimum, 0.78 ft^3/s Nov. 29, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 25 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 5	1900	*75	*8.71	No other peak greater than base discharge.			

Minimum, 1.9 ft^3/s Sept. 29.

DISCHARGE, IN CUBIC [illegible] PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.9	4.5	4.6	3.9	4.4	5.5	66	21	9.4	3.5	2.8
2	5.0	3.8	5.2	4.6	4.0	4.4	5.9	65	21	8.8	3.4	2.8
3	4.6	3.7	5.2	4.6	4.0	4.5	6.1	59	19	8.1	3.4	3.1
4	4.3	3.7	5.1	4.6	4.0	4.7	6.3	56	18	7.5	3.4	3.5
5	4.3	3.7	5.1	4.7	3.9	4.9	6.2	60	18	6.9	3.4	3.2
6	4.3	3.9	5.3	4.6	3.9	4.9	6.2	65	18	6.5	3.4	3.3
7	4.3	3.5	5.1	4.6	4.0	4.9	6.3	64	17	6.1	3.6	3.5
8	4.3	3.9	5.0	4.5	4.0	5.0	7.2	61	18	5.7	3.4	3.4
9	4.2	3.8	4.5	4.4	4.1	5.2	7.5	58	17	5.3	3.4	3.4
10	4.2	4.0	3.9	4.4	4.1	4.9	7.7	53	17	4.9	3.4	3.4
11	4.3	3.7	4.5	4.4	4.2	4.8	8.1	48	17	5.1	3.4	3.4
12	4.2	3.8	5.1	4.5	4.2	4.8	7.8	44	16	5.3	3.5	3.3
13	4.0	3.8	5.1	4.5	4.2	4.9	7.2	47	15	4.5	3.4	3.2
14	4.0	3.8	4.9	4.3	4.3	4.8	8.2	41	15	3.9	3.6	3.1
15	4.1	3.8	4.8	4.4	4.2	4.8	9.9	38	14	3.7	3.6	3.1
16	4.1	3.8	4.9	4.3	4.2	4.8	12	35	14	3.5	3.6	3.0
17	4.0	3.8	4.8	4.2	4.1	4.8	14	35	13	3.6	3.5	2.9
18	4.3	3.8	4.8	4.3	4.2	4.8	15	36	13	3.4	3.5	2.8
19	4.3	5.7	4.9	4.2	4.5	4.7	14	35	13	3.3	3.5	2.7
20	4.1	5.0	4.8	4.0	4.4	4.6	12	33	12	3.5	3.5	2.6
21	4.1	4.8	4.7	4.0	4.3	4.5	12	32	12	4.7	3.7	2.5
22	4.1	4.6	4.7	4.0	4.5	4.7	15	30	11	4.6	3.9	2.4
23	4.0	4.3	4.7	3.9	4.5	4.6	18	29	11	3.8	4.0	2.4
24	4.0	4.5	4.7	3.9	4.5	4.4	23	28	11	3.6	6.7	2.3
25	3.9	5.4	4.7	3.9	4.5	4.6	28	28	10	3.6	3.1	2.4
26	3.9	4.6	4.6	3.9	4.4	4.6	32	28	9.9	3.5	2.9	2.4
27	3.9	4.9	4.7	3.9	4.4	4.6	38	27	9.5	3.6	2.8	2.3
28	3.9	5.2	4.7	4.0	4.4	4.6	46	26	9.5	3.8	2.8	2.2
29	3.8	5.2	4.6	3.9	---	4.5	54	24	9.7	4.2	2.8	2.2
30	3.8	5.1	4.6	3.9	---	4.5	61	23	12	3.7	2.7	2.2
31	4.0	---	4.5	3.9	---	5.0	---	22	---	3.6	2.8	---
TOTAL	128.5	127.5	148.8	131.9	117.9	146.2	500.1	1296	431.6	151.7	107.6	85.8
MEAN	4.15	4.25	4.80	4.25	4.21	4.72	16.7	41.8	14.4	4.89	3.47	2.86
MAX	5.0	5.7	5.3	4.7	4.5	5.2	61	66	21	9.4	6.7	3.5
MIN	3.8	3.5	3.9	3.9	3.9	4.4	5.5	22	9.5	3.3	2.7	2.2
AC-FT	255	253	295	262	234	290	992	2570	856	301	213	170

CAL YR 1986 TOTAL 8123.4 MEAN 22.3 MAX 257 MIN 2.7 AC-FT 16110
WTR YR 1987 TOTAL 3373.6 MEAN 9.24 MAX 66 MIN 2.2 AC-FT 6690

10215700 OAK CREEK NEAR SPRING CITY, UT

LOCATION.--Lat 39°26'52", long 111°25'29", in SW¼SE¼SW¼, sec.1, T.16 S., R.4 E., Sanpete County, on right bank about 400 ft upstream from powerplant diversion, 0.8 mi downstream from South Fork, and 4.5 mi southeast of Spring City.

DRAINAGE AREA.--8.35 mi^2.

PERIOD OF RECORD.--October 1964 to September 1974, June 1979 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 7,400 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion above station. Flow includes discharge of Spring City tunnel (transmountain diversion from Colorado River Basin).

AVERAGE DISCHARGE.--18 years, 11.6 ft^3/s, 8,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300 ft^3/s July 23, 1965, gage height, 3.75 ft from floodmark, from rating curve extended above 75 ft^3/s; minimum, 0.93 ft^3/s Mar. 6, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2000	42	2.13	June 7	1900	*43	*2.19

Minimum daily, 4.2 ft^3/s Dec. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	5.9	4.6	4.7	5.2	6.2	5.1	14	23	9.3	6.2	4.8
2	6.4	6.0	4.6	4.7	5.3	6.6	5.3	14	25	9.0	6.0	4.8
3	6.3	5.8	4.6	4.7	5.3	6.6	5.5	12	28	8.6	5.9	4.8
4	6.1	5.8	4.7	4.8	5.2	6.5	5.4	12	28	8.4	5.9	4.8
5	6.2	5.8	4.7	4.8	5.0	6.8	5.1	14	29	8.2	5.9	4.8
6	6.2	5.8	4.8	4.8	5.4	6.1	5.0	17	30	7.9	6.1	4.9
7	6.2	5.7	4.7	4.8	5.5	5.3	5.3	21	34	6.9	6.2	4.8
8	6.2	5.8	4.6	4.8	5.5	5.4	5.5	23	32	5.6	5.9	4.8
9	6.1	5.9	e4.4	e4.8	5.7	5.6	5.6	23	27	5.5	5.9	4.8
10	6.0	6.0	e4.2	e4.7	5.5	5.4	5.6	24	27	5.3	5.9	4.8
11	5.9	5.9	e4.7	4.7	5.6	5.5	5.8	24	26	7.5	5.9	4.8
12	5.5	5.9	4.9	4.8	5.6	5.4	5.5	25	24	9.2	5.6	4.8
13	5.3	6.2	4.8	5.0	5.8	5.6	5.3	28	23	7.3	5.7	5.1
14	5.5	6.2	4.7	5.0	6.2	5.4	5.7	30	21	7.3	5.6	5.7
15	5.5	6.2	4.7	5.0	5.8	5.3	6.5	33	20	7.1	5.6	5.6
16	5.6	6.2	4.6	5.0	5.9	5.3	7.1	36	19	7.0	5.3	5.6
17	5.9	6.2	4.6	4.9	5.9	5.3	7.9	33	17	7.0	5.3	5.4
18	5.9	6.2	4.6	5.0	6.0	5.4	8.3	32	15	6.8	5.3	5.3
19	5.9	6.0	4.6	5.0	6.0	5.5	7.5	31	14	6.7	5.3	5.3
20	5.8	4.7	4.6	e5.1	5.9	5.4	6.5	29	13	6.9	5.3	5.3
21	5.8	4.7	4.7	5.2	e6.1	6.1	6.6	26	13	7.0	5.3	5.3
22	5.9	4.7	4.8	5.3	6.4	5.4	7.5	24	12	6.7	5.2	5.3
23	5.8	4.6	4.7	5.3	6.2	5.3	8.9	23	11	6.4	5.3	5.3
24	5.8	4.6	4.7	5.3	6.4	5.3	9.5	22	11	6.4	5.6	5.3
25	5.7	4.6	4.7	5.2	6.5	5.3	9.8	21	11	6.4	5.7	5.3
26	5.7	4.5	4.7	5.2	6.1	5.3	10	20	10	6.7	5.5	5.3
27	5.7	4.6	4.8	5.1	5.9	5.3	11	19	10	7.0	5.1	5.3
28	5.8	4.6	4.8	5.2	e6.0	5.3	13	19	10	7.0	5.1	5.3
29	5.8	4.8	4.6	5.3	---	5.3	15	18	9.8	7.3	5.1	5.3
30	6.0	4.8	4.6	5.2	---	6.3	16	18	9.6	6.8	5.1	5.3
31	6.1	---	4.6	5.2	---	4.9	---	20	---	6.5	5.1	---
TOTAL	182.5	164.7	144.4	154.6	161.9	174.4	226.8	705	582.4	221.7	172.9	154.0
MEAN	5.89	5.49	4.66	4.99	5.78	5.63	7.56	22.7	19.4	7.15	5.58	5.13
MAX	6.4	6.2	4.9	5.3	6.5	6.8	16	36	34	9.3	6.2	5.7
MIN	5.3	4.5	4.2	4.7	5.0	4.9	5.0	12	9.6	5.3	5.1	4.8
AC-FT	362	327	286	307	321	346	450	1400	1160	440	343	305

CAL YR 1986 TOTAL 4577.3 MEAN 12.5 MAX 76 MIN 4.1 AC-FT 9080
WTR YR 1987 TOTAL 3045.3 MEAN 8.34 MAX 36 MIN 4.2 AC-FT 6040

e Estimated

10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT

LOCATION.--Lat 39°15'33", long 111°34'45", in NE¼SE¼SE¼ sec.9, T.18 S., R.3 E., Sanpete County, Hydrologic Unit 16030004, on right bank 200 ft downstream from a side road bridge 0.6 mi upstream from upper powerplant, 2.3 mi east of cattle guard at Manti-LaSal forest boundary, and 3.5 mi east of Manti.

DRAINAGE AREA.--26.4 mi².

PERIOD OF RECORD.--October 1964 to September 1974; October 1978 to current year.

REVISED RECORDS.--WRD UT-81-1: 1979, 1980(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Records do not include flow diverted around station in an 8-inch pipeline, for culinary water for the city of Manti, and generation of power at the upper powerplant. Records include flow of a small transmountain diversion from San Rafael River basin.

AVERAGE DISCHARGE.--19 years, 33.7 ft³/s, 24,420 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 682 ft³/s June 9, 1973, gage height, 2.93 ft; minimum, 0.9 ft³/s Nov. 3, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Apr. 30	2000	78	1.53	May 12	1900	*127	*1.86

Minimum, 3.5 ft³/s Mar. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	8.8	e5.1	e5.2	e5.2	e4.8	e5.3	70	68	29	14	8.6
2	14	8.6	e5.2	e5.0	e5.0	e4.9	e5.4	69	67	28	13	8.7
3	13	8.5	e5.2	e5.0	e4.9	e5.0	5.5	59	66	26	13	8.7
4	12	8.3	e4.7	e5.3	e4.7	e5.1	5.8	60	65	25	13	9.2
5	12	8.1	e4.9	e5.0	e4.9	7.5	8.1	67	64	25	12	8.5
6	11	7.9	e4.8	e4.9	e5.0	6.9	11	84	66	24	15	8.5
7	11	8.5	e4.5	e4.7	e4.9	5.8	10	94	62	23	17	9.3
8	11	12	e4.6	e4.5	e5.0	5.2	e13	101	63	23	14	8.4
9	11	18	e4.6	e4.3	e4.9	5.7	e13	104	59	22	14	8.2
10	11	11	e4.5	e4.5	e4.9	4.7	12	100	59	20	13	8.0
11	12	15	e4.5	e4.7	e5.2	4.1	14	95	59	21	12	7.8
12	12	8.4	e4.6	e4.8	e5.1	e4.3	13	102	56	22	12	7.7
13	12	10	e4.7	e4.8	e5.1	e4.2	13	103	54	19	12	9.2
14	11	9.1	e5.0	e4.6	e4.7	e4.1	14	106	52	19	12	13
15	11	9.8	e4.7	e4.4	e4.5	e4.0	20	96	51	18	11	11
16	11	10	e5.2	e4.4	e4.4	e3.9	26	83	50	17	11	10
17	11	10	e5.0	e4.2	e4.6	e4.2	32	77	48	18	11	9.7
18	11	9.7	e5.2	e4.5	e4.5	e4.5	35	80	45	17	11	9.4
19	10	9.3	e5.2	e4.3	e4.6	e4.2	31	76	43	17	10	9.1
20	10	8.0	e5.3	e4.1	e4.7	e4.1	25	78	42	17	11	8.8
21	11	7.6	e5.1	e4.3	e4.8	e4.2	25	76	40	18	11	8.4
22	10	e6.3	e5.0	e4.4	e4.9	e5.0	32	75	39	17	10	7.9
23	10	e6.3	e5.0	e4.5	e4.7	e4.8	41	73	38	16	11	7.7
24	9.9	e6.4	e5.0	e4.5	e4.6	e5.0	42	71	36	15	12	7.7
25	9.7	e6.4	e5.0	e4.8	e4.6	e5.1	43	69	35	15	11	7.8
26	9.5	e6.3	e4.9	e5.0	e4.5	e5.3	48	64	34	16	11	7.7
27	9.6	e6.4	e5.0	e5.0	e4.3	e5.0	56	59	36	16	10	7.0
28	9.4	e6.5	e4.9	e4.9	e4.7	e5.1	63	57	35	17	9.7	6.8
29	9.2	e6.5	e5.1	e4.6	---	e4.9	69	54	34	16	9.3	7.7
30	9.1	e5.0	e5.3	e4.7	---	e5.2	71	55	31	16	9.0	6.7
31	8.9	---	e5.2	e4.9	---	e5.4	---	62	---	15	8.7	---
TOTAL	335.3	262.7	153.0	144.8	133.9	152.2	810.1	2419	1497	607	363.7	257.2
MEAN	10.8	8.76	4.94	4.67	4.78	4.91	27.0	78.0	49.9	19.6	11.7	8.57
MAX	14	18	5.3	5.3	5.2	7.5	71	106	68	29	17	13
MIN	8.9	5.0	4.5	4.1	4.3	3.9	5.3	54	31	15	8.7	6.7
AC-FT	665	521	303	287	266	302	1610	4800	2970	1200	721	510

CAL YR 1986 TOTAL 16349.6 MEAN 44.8 MAX 426 MIN 4.5 AC-FT 32430
WTR YR 1987 TOTAL 7135.9 MEAN 19.6 MAX 106 MIN 3.9 AC-FT 14150

e Estimated

10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT

LOCATION.--Lat 39°09'19", long 111°52'37", in NE¼NE¼SE¼ sec.14, T.19 S., R.1 W., Sanpete County, Hydrologic Unit 16030003, on left bank 1,000 ft downstream from San Pitch River and 3.2 mi west of Gunnison.

DRAINAGE AREA.--4,921 mi^2.

PERIOD OF RECORD.--March 1912 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,025 ft from topographic map. Prior to Oct. 28, 1938, at same site at datum 0.38 ft higher. Since Apr. 16, 1986 at different site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station. Most of flow diverted above station during irrigation season.

AVERAGE DISCHARGE.--75 years, 266 ft^3/s, 192,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,400 ft^3/s May 29, 1984; minimum, 5.6 ft^3/s July 17-21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 832 ft^3/s Jan. 11, gage height, 5.56 ft; minimum discharge, 29 ft^3/s July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e330	332	423	399	e580	e800	e740	e310	190	77	91	78
2	e330	343	418	409	e580	e800	715	e310	170	113	130	88
3	e340	345	421	418	e580	e620	697	e310	166	56	130	110
4	e330	335	e430	422	e580	e660	592	e310	148	61	114	125
5	e330	333	431	495	e620	612	574	e310	153	63	e104	118
6	e315	339	447	601	e620	576	598	e310	156	54	e88	127
7	304	335	461	632	e620	565	610	e310	190	43	e81	138
8	292	339	467	653	e620	471	595	e310	225	43	e96	167
9	281	315	471	658	e620	397	559	e310	272	41	e77	195
10	283	317	445	660	e620	e400	550	e310	267	46	e69	191
11	292	321	423	701	e620	e400	517	e310	236	45	e98	210
12	316	323	418	628	e620	e420	541	e300	214	61	e89	209
13	e315	331	414	634	e800	e440	514	e273	177	81	e73	e221
14	e310	332	420	e660	e800	e470	489	286	142	74	75	e227
15	314	321	437	e650	e800	e500	512	294	129	83	77	e260
16	303	326	419	e650	e800	e630	558	354	120	90	74	e290
17	297	323	479	e650	e800	e630	492	344	107	92	68	e230
18	294	326	477	e650	e800	e630	538	323	107	108	62	e180
19	285	335	503	e650	e800	e630	500	314	107	88	68	162
20	285	329	512	e650	e800	e630	472	316	101	93	83	162
21	286	325	508	e650	e800	e630	436	301	95	106	103	158
22	297	339	481	e650	e800	e800	e344	278	90	113	116	146
23	302	334	458	e650	e800	e800	396	228	72	115	131	110
24	308	326	448	e650	e800	e800	358	194	75	126	124	118
25	289	333	427	e650	e800	e800	e242	240	77	119	101	113
26	290	343	411	e650	e800	e800	e201	244	76	117	83	106
27	307	345	412	e530	e800	e800	e306	288	75	120	87	100
28	310	370	413	e530	e800	e750	e332	328	79	139	82	102
29	315	439	415	e530	---	e750	e324	287	75	103	80	107
30	329	441	404	e530	---	e750	e317	296	93	160	80	106
31	320	---	402	e530	---	e750	---	248	---	133	82	---
TOTAL	9499	10195	13695	18420	20080	19711	14619	9144	4184	2763	2816	4654
MEAN	306	340	442	594	717	636	487	295	139	89.1	90.8	155
MAX	340	441	512	701	800	800	740	354	272	160	131	290
MIN	281	315	402	399	580	397	201	194	72	41	62	78
AC-FT	18840	20220	27160	36540	39830	39100	29000	18140	8300	5480	5590	9230

CAL YR 1986 TOTAL 190041 MEAN 521 MAX 1480 MIN 39 AC-FT 376900
WTR YR 1987 TOTAL 129780 MEAN 356 MAX 800 MIN 41 AC-FT 257400

e Estimated

10218500 SEVIER BRIDGE RESERVOIR NEAR JUAB, UT

LOCATION.--Lat 39°22'20", long 112°01'57", in NW¼NW¼NW¼ sec.1, T.17 S., R.2 W., Juab County, Hydrologic Unit 16030003, at Sevier Bridge Dam on Sevier River, 9.0 mi northeast of Scipio.

DRAINAGE AREA.--5,155 mi^2.

PERIOD OF RECORD.--January 1914 to current year.

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Staff gage below gage height 60 ft and wire-weight gage above, at left end of dam, read once daily. Datum of gage is 4,937.51 ft NGVD of 1929.

REMARKS.--Reservoir was formed by a 30-ft earthfill dam. Storage began about 1904. Dam ultimately raised to 90 ft by June 1916. Capacity, 236,000 acre-ft between gage heights 6.0 ft (approximate bottom of outlet tunnel) and 80.0 ft (top of flashboard on spillway). No dead storage. Water is used for irrigation. Revised capacity table, based on Soil Conservation Service survey in 1961, used since Oct. 1, 1962.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 271,600 acre-ft June 21-24, 1983; gage height, 83.0 ft; no storage at times in 1927-28, 1930-36, 1951, 1960-61.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 234,000 acre-ft Mar. 23-25, gage height, 79.8 ft; minimum contents observed, 105,000 acre-ft Sept. 6-9, gage height, 63.0 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

63	105,000	70	146,200	79	225,400
64	109,800	72	161,300	80	236,150
65	114,900	75	186,500		
68	132,600	78	215,10[illegible]		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
INSTANTANEOUS OBSERVATIONS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167000	186500	204200	214100	218200	227600	231900	210100	190200	153600	128800	107400
2	167800	186500	204200	214100	218200	227600	231900	209100	189300	152900	128200	107000
3	168600	187500	205200	214100	218200	228600	231900	209100	188400	152100	128200	106500
4	169400	188400	206200	214100	218200	228600	231900	208100	186500	149900	127600	105500
5	169400	189300	206200	214100	218200	228600	230800	208100	185700	148400	126300	105500
6	170200	190200	206200	215100	219200	229700	230800	208100	184800	147700	125700	105000
7	171100	191100	207100	215100	219200	228600	230800	207100	183000	146200	123500	105000
8	171900	192000	207100	216000	219200	228600	230800	206200	183000	145500	122800	105000
9	171900	192000	208100	216100	220300	228600	229700	205200	183000	144100	122200	105000
10	172700	192000	208100	217200	220300	228600	230800	203300	183000	142000	121000	105500
11	172700	192900	209100	217200	220300	228600	230800	202300	183000	141300	121000	105500
12	173600	193800	209100	217200	220300	228600	230800	201400	183000	139900	119900	105500
13	173600	194700	210100	217200	221300	228600	230800	199500	182200	138500	119900	106000
14	175300	194700	210100	218200	222300	228600	229700	198500	180400	137900	119300	106000
15	176100	195700	210100	218200	222300	228600	228600	196600	179500	137200	118200	106500
16	176900	195700	210100	218200	223400	229700	227600	195700	177800	136500	117100	107000
17	177800	196600	211100	218200	223400	229700	226500	194700	176100	135900	115500	107400
18	177800	196600	211100	218200	224400	230800	224400	194700	173600	135200	114400	107400
19	177800	197600	211100	218200	224400	231900	222300	194700	171900	134600	113900	107900
20	178700	198500	212100	218200	225400	232900	222300	194700	169400	133900	113400	107900
21	179500	199500	212100	218200	226500	232900	221300	194700	167800	133200	112400	108400
22	179500	199500	212100	219200	226500	232900	220300	193800	165400	132600	111900	108400
23	180400	200400	213100	219200	227600	234000	219200	193800	165400	132600	110800	108900
24	181300	200400	213100	219200	226500	234000	218200	193800	163700	131900	109800	108400
25	181300	201400	213100	219200	226500	234000	216100	192900	162100	131300	109300	108400
26	183000	201400	213100	219200	226500	232900	215100	192000	159800	131300	108900	108400
27	183900	202300	213100	219200	226500	232900	213100	192900	159800	130700	108900	108400
28	184800	202300	214100	218200	227600	232900	212100	192900	157500	130700	108900	108400
29	184800	202300	214100	218200	---	231900	211100	192900	155900	130100	108900	107900
30	185700	203300	214100	218200	---	231900	211100	192000	154400	130100	108400	107900
31	185700	---	214100	218200	---	232900	---	191100	---	129400	107900	---
MAX	185700	203300	214100	219200	227600	234000	231900	210100	190200	153600	128800	108900
MIN	167000	186500	204200	214100	218200	227600	211100	191100	154400	129400	107900	105000
(#)	74.9	76.8	77.9	78.3	79.2	79.7	77.6	75.5	71.1	67.5	63.6	63.6
(*)	+19500	+17600	+10800	+4100	+9400	+5300	-21800	-20000	-36700	-25000	-21500	0

CAL YR 1986 . . . . . (*) +5000
WTR YR 1987 . . . . . (*) -58300

(#) Gage height, in feet, at end of month.
(*) Change in contents, in acre-feet.

10219000 SEVIER RIVER NEAR JUAB, UT

LOCATION.--Lat 39°22'29", long 112°02'20", in SE¼SW¼SE¼ sec.35, T.16 S., R.2 W., Juab County, Hydrologic Unit 16030005, on right bank 0.5 mi downstream from Sevier Bridge Dam and 11.6 mi southwest of Juab.

DRAINAGE AREA.--5,165 mi^2.

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder and rubble masonry control since Apr. 16, 1914. Altitude of gage is 4,940 ft by barometer. Prior to Apr. 16, 1914, staff gage 500 ft upstream at different datum. Apr. 16, 1914 to Apr. 7, 1938, water-stage recorder at present site and datum. Apr. 8, 1938 to Mar. 31, 1942, water-stage recorder at site 1,300 ft upstream at different datum. Apr. 1, 1942 to July 15, 1961, water-stage recorder on left bank same site and datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Sevier Bridge Reservoir (see station 10218500).

AVERAGE DISCHARGE.--76 years, 266 ft^3/s, 192,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,190 ft^3/s June 25, 1983, gage height, 10.90 ft; practically no flow at times when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft^3/s Mar. 26, gage height, 4.02 ft; minimum daily, 4.6 ft^3/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	9.8	123	332	580	662	755	639	654	497	320	292
2	44	9.8	124	348	582	660	756	428	653	495	321	292
3	44	10	124	346	583	594	753	307	649	586	320	292
4	45	11	124	346	586	462	702	307	646	653	e428	292
5	45	11	179	346	585	459	602	307	648	650	570	216
6	45	11	224	348	587	456	504	659	645	651	629	159
7	46	11	225	349	589	454	508	842	447	650	626	113
8	47	11	225	350	588	450	430	840	292	649	625	91
9	47	12	225	382	589	449	432	843	292	647	622	89
10	34	12	226	490	589	444	433	841	292	646	380	89
11	9.8	13	227	491	588	443	438	923	e289	645	220	104
12	9.8	14	227	491	590	373	441	1020	e407	647	219	113
13	9.8	14	227	494	591	259	562	1020	e596	473	219	113
14	9.8	14	228	495	600	255	1150	1020	e675	331	356	48
15	9.8	14	275	498	597	254	1160	896	e882	330	625	5.3
16	9.8	14	314	496	601	254	1160	831	e997	328	761	5.0
17	9.8	14	314	493	600	252	1160	626	e992	327	547	4.6
18	9.8	14	315	492	602	257	1150	470	985	326	440	26
19	9.8	14	317	495	605	357	1010	355	991	325	439	43
20	9.8	14	317	494	601	498	902	304	985	323	435	44
21	9.8	14	319	311	596	572	989	303	982	325	436	44
22	9.8	69	321	285	593	576	991	413	912	323	437	49
23	9.8	129	321	337	641	601	987	537	822	323	356	131
24	9.8	128	320	508	672	834	989	298	822	323	302	133
25	9.0	127	320	582	671	1060	992	297	819	322	302	134
26	8.9	126	320	530	672	1150	992	297	817	322	214	136
27	8.9	126	320	580	671	1030	995	296	814	322	163	134
28	8.9	126	321	583	664	909	742	298	812	323	163	133
29	8.9	124	323	580	---	766	636	390	699	322	203	116
30	9.4	124	323	581	---	756	637	581	618	320	233	103
31	9.8	---	323	580	---	751	---	650	---	320	272	---
TOTAL	642.0	1340.6	8091	14083	17013	17378	24058	17837	21134	13724	12183	3543.9
MEAN	20.7	44.7	261	454	608	561	802	575	704	443	393	118
MAX	47	129	323	583	672	1150	1160	1020	997	653	761	292
MIN	8.9	9.8	123	285	580	252	430	296	289	320	163	4.6
AC-FT	1270	2660	16050	27930	33750	34470	47720	35380	41920	27220	24160	7030

CAL YR 1986 TOTAL 194788.2 MEAN 534 MAX 1300 MIN 8.9 AC-FT 386400
WTR YR 1987 TOTAL 151027.5 MEAN 414 MAX 1160 MIN 4.6 AC-FT 299600

e Estimated

10219200 CHICKEN CREEK NEAR LEVAN, UT

LOCATION (REVISED).--Lat 39°33'00", long 111°49'31", in NE¼NE¼SW¼ sec.33, T.14 S., R.1 E., Juab County, Hydrologic Unit 16030005, on left bank 125 ft upstream from county road culvert, 50 ft upstream from diversion structure, 0.5 mi upstream from mouth of canyon, and 2.0 mi east of Levan.

DRAINAGE AREA.--27.9 mi².

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,540 ft from topographic map. Prior to Jan. 18, 1978 at site 350 ft downstream at different datum. Jan. 18, 1978 to June 19, 1986 at site 600 ft downstream at same datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--25 years, 9.65 ft³/s, 6,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 390 ft³/s Sept. 8, 1981, gage height, 5.70 ft, from rating curve extended above 250 ft³/s on basis of velocity-area study; no flow Feb. 11, 14, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15 ft³/s not determined. Maximum daily discharge, 6.8 ft³/s Apr. 18; minimum daily discharge 0.48 ft³/s Sept. 3, 5, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.5	e2.1	e1.0	e.70	e.82	2.0	5.2	e2.6	e1.0	e.82	e.50
2	4.3	3.5	e2.1	e1.1	e.71	e.88	2.0	e5.8	e2.5	e.96	e.78	e.50
3	4.2	3.3	e2.1	e1.2	e.72	e.94	2.4	e4.8	e2.4	e.88	e.76	e.48
4	4.2	3.2	e2.1	e1.2	e.71	e1.1	3.0	e4.4	e2.4	e.82	e.76	e.56
5	4.1	3.2	e2.1	e1.2	e.70	e1.2	3.3	e4.1	e2.3	e.76	e.76	e.48
6	3.5	3.5	e2.4	e1.2	e.69	e1.2	3.3	e3.9	e2.3	e.78	e.74	e.50
7	3.5	3.2	e2.1	e1.0	e.69	e1.2	4.4	e3.7	e2.4	e.80	e.80	e.56
8	3.3	3.2	e2.1	e.92	e.70	1.2	5.0	e3.7	e2.3	e.76	e.74	e.50
9	3.2	2.4	e1.9	e.86	e.72	1.5	5.4	e3.5	e2.2	e.74	e.76	e.48
10	3.3	2.2	e1.4	e.86	e.75	1.4	5.7	e3.4	e2.2	e.74	e.70	e.52
11	3.7	2.2	e1.2	e.86	e.77	1.3	6.1	e3.5	e2.1	e.84	e1.1	e.52
12	3.5	2.2	e1.2	e.86	e.78	1.3	6.0	e3.2	e2.0	e1.0	e.80	e.56
13	3.4	2.3	e1.2	e.88	e.80	1.5	5.0	e3.1	e2.0	e.80	e.72	e.58
14	3.5	2.6	e1.3	e.86	e.84	1.6	5.0	e3.2	e2.0	e.70	e.72	e.59
15	3.4	2.7	e1.3	e.84	e.78	2.1	5.8	e3.1	e1.9	e.62	e.74	e.58
16	3.5	2.7	e1.3	e.76	e.78	2.2	6.2	e3.2	e1.9	e.62	e.76	e.56
17	3.4	2.6	e1.3	e.58	e.78	2.0	6.5	e3.1	e1.8	e.66	e.72	e.55
18	3.6	2.4	e1.2	e.58	e.76	2.2	6.8	e3.8	e1.7	e.78	e.68	e.56
19	3.5	2.7	e1.3	e.60	e.77	2.2	6.1	e3.7	e1.6	e.68	e.64	e.54
20	3.4	2.8	e1.3	e.60	e.77	2.2	5.6	e3.1	e1.5	e.64	e.72	e.51
21	3.2	2.6	e1.3	e.56	e.76	2.0	5.3	e3.0	e1.4	e.64	e.64	e.51
22	3.3	e2.6	e1.1	e.58	e.78	2.0	5.0	e3.0	e1.3	e.66	e.74	e.51
23	3.2	e2.6	e1.2	e.60	e.82	2.0	5.1	e2.9	e1.3	e.64	e.76	e.51
24	3.2	e2.4	e1.1	e.62	e.78	1.8	5.3	e2.9	e1.2	e.66	e1.5	e.52
25	3.2	e2.5	e1.0	e.64	e.78	1.7	5.2	e2.9	e1.2	e.68	e.80	e.54
26	3.2	e2.4	e1.1	e.66	e.77	1.8	4.9	e2.8	e1.1	e.80	e.66	e.54
27	3.1	e2.5	e1.2	e.70	e.76	2.0	4.9	e2.8	e1.0	e.74	e.60	e.52
28	3.2	e2.5	e1.2	e.70	e.78	2.0	4.9	e2.9	e1.0	e.74	e.54	e.54
29	3.2	e2.5	e1.1	e.69	---	2.0	5.1	e2.8	e.94	e1.0	e.52	e.53
30	3.3	e2.4	e1.1	e.69	---	1.9	5.3	e2.8	e1.1	e.90	e.54	e.55
31	3.5	---	e1.0	e.70	---	1.8	---	e2.7	---	e.86	e.52	---
TOTAL	107.6	81.4	45.4	25.10	21.15	51.04	146.6	107.0	53.64	23.90	23.04	15.90
MEAN	3.47	2.71	1.46	.81	.76	1.65	4.89	3.45	1.79	.77	.74	.53
MAX	4.3	3.5	2.4	1.2	.84	2.2	6.8	5.8	2.6	1.0	1.5	.59
MIN	3.1	2.2	1.0	.56	.69	.82	2.0	2.7	.94	.62	.52	.48
AC-FT	213	161	90	50	42	101	291	212	106	47	46	32

CAL YR 1986	TOTAL	4919.13	MEAN	13.5	MAX	57	MIN	1.0	AC-FT 9760
WTR YR 1987	TOTAL	701.76	MEAN	1.92	MAX	6.8	MIN	.48	AC-FT 1390

e Estimated

10224000 SEVIER RIVER NEAR LYNNDYL, UT

LOCATION.--Lat 39°28'55", long 112°23'35", in NW¼NE¼SE¼ sec.27, T.15 S., R.5 W., Millard County, Hydrologic Unit 16030005, on right bank 1.6 mi downstream from highway bridge and 3.5 mi southwest of Lynndyl.

DRAINAGE AREA.--5,966 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to October 1919, October 1942 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 4,660 ft by barometer.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Sevier Bridge Reservoir about 35 mi upstream (see station 10218500). Several diversions for irrigation between reservoir and station.

AVERAGE DISCHARGE.--50 years, 254 ft^3/s, 184,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,020 ft^3/s June 15-17, 1983; minimum, 2.4 ft^3/s Jan. 26, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft^3/s Mar. 28, gage height, 7.52 ft; minimum discharge, 20 ft^3/s Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	101	121	319	634	760	882	514	481	476	221	173
2	149	101	121	317	636	763	868	508	483	385	215	205
3	143	101	123	342	638	756	805	433	487	347	208	221
4	145	100	125	348	645	737	801	273	481	373	195	246
5	139	100	127	351	650	614	779	251	472	456	210	250
6	130	100	135	357	652	593	679	235	472	457	319	246
7	137	102	195	361	654	590	666	345	481	452	419	167
8	135	102	202	e350	656	590	607	571	419	446	429	134
9	133	101	204	e350	659	598	505	576	233	436	467	65
10	130	101	206	e350	661	597	468	587	229	447	559	53
11	130	100	e200	e430	663	589	460	598	227	466	524	37
12	129	100	e190	e500	675	584	441	632	211	492	309	34
13	106	99	e190	e500	680	571	427	687	210	494	296	37
14	102	98	e190	e500	695	459	438	692	356	444	291	43
15	100	98	202	e500	686	451	817	702	467	277	336	51
16	100	97	206	e500	688	458	906	667	561	275	530	58
17	100	97	258	e500	687	459	901	593	707	276	733	37
18	99	96	271	e500	688	453	900	525	705	274	649	37
19	103	96	281	e500	687	457	896	380	690	273	395	36
20	103	96	283	e500	687	553	864	326	672	268	359	32
21	100	96	284	e500	688	640	719	246	676	279	359	71
22	103	96	286	e460	689	722	802	236	688	290	358	81
23	105	98	289	e380	693	724	810	246	675	276	349	88
24	104	e96	302	e390	725	782	804	459	605	283	309	105
25	105	e96	301	e440	760	887	785	265	591	281	227	161
26	105	e96	302	e600	758	1050	784	250	595	262	214	156
27	104	120	305	688	756	1150	789	245	594	241	192	166
28	103	121	307	634	757	1120	792	249	597	230	106	174
29	103	123	308	632	---	1020	684	253	590	237	90	178
30	102	122	310	631	---	903	523	281	543	232	99	184
31	101	---	312	632	---	886	---	409	---	220	155	---
TOTAL	3649	3050	7136	14362	19151	21516	21602	13234	15198	10647	10122	3526
MEAN	118	102	230	463	684	694	720	427	507	343	327	118
MAX	193	123	312	688	760	1150	906	702	707	494	733	250
MIN	99	96	121	317	634	451	427	235	210	220	90	32
AC-FT	7240	6050	14150	28490	37990	42680	42850	26250	30150	21120	20080	6990

CAL YR 1986 TOTAL 186[illegible]85 MEAN 512 MAX 1190 MIN 62 AC-FT 370900
WTR YR 1987 TOTAL 143193 MEAN 392 MAX 1150 MIN 32 AC-FT 284000

e Estimated

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1980, October 1980 to September 1981, continuous.
WATER TEMPERATURES: March 1951 to September 1980, October 1980 to September 1981, continuous.

INSTRUMENTATION.--Conductance and water temperature recorder October 1980 to September 1981.

REMARKS.--Unpublished daily records of specific conductance obtained before water year 1965 were included in the determination of extremes for period of daily record and are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 8,300 microsiemens Dec. 27, 1962; minimum daily, 395 microsiemens Feb. 17, 1980.
WATER TEMPERATURES: Maximum recorded, 33.0°C Aug. 23, 1981; minimum, 0.0°C on many days during winter period of most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE AIR (DEG C)	TEMPERATURE WATER (DEG C)	TURBIDITY (NTU)	OXYGEN, DISSOLVED (MG/L)	BAROMETRIC PRESSURE (MM OF HG)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT , 1986											
09...	1100	133	1820	8.30	18.0	13.0	--	--	--	--	--
NOV											
19...	1150	94	1880	8.30	13.5	8.5	1.6	9.9	642	K2	72
DEC											
18...	1330	283	1590	8.50	8.0	3.0	--	--	--	--	--
JAN , 1987											
27...	1610	664	1660	8.50	8.5	3.5	72	11.4	646	K4	94
FEB											
19...	1450	692	1690	8.50	1.5	4.0	--	--	--	--	--
MAR											
24...	1245	794	1710	8.30	8.5	5.5	70	10.2	640	K2	51
APR											
14...	1400	422	1720	8.50	23.0	12.0	--	--	--	--	--
MAY											
28...	1445	256	1680	8.40	18.0	15.0	12	8.6	642	22	110
JUN											
18...	1350	711	1490	8.40	30.0	18.0	--	--	--	--	--
JUL											
29...	1020	239	1620	8.40	27.5	21.5	35	7.1	644	30	31
AUG											
27...	1050	214	1840	8.50	22.0	18.5	--	--	--	--	--
SEP											
23...	1055	92	1800	8.40	23.0	15.5	7.2	8.6	650	K3	56

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE WH WAT TOTAL FIELD MG/L AS HCO3	CARBONATE WH WAT TOTAL FIELD MG/L AS CO3
OCT , 1986										
09...	530	270	78	82	210	46	4	5.4	--	--
NOV										
19...	530	260	81	80	190	43	4	4.8	320	8.0
DEC										
18...	430	180	64	66	180	47	4	5.3	--	--
JAN , 1987										
27...	460	170	70	68	190	47	4	5.3	330	10
FEB										
19...	470	180	72	70	190	47	4	5.5	--	--
MAR										
24...	480	190	74	71	190	46	4	5.2	350	0
APR										
14...	470	200	74	70	190	46	4	5.2	--	--
MAY										
28...	460	200	70	70	200	48	4	5.4	310	12
JUN										
18...	400	160	60	60	170	48	4	5.1	--	--
JUL										
29...	410	150	60	64	190	50	4	6.4	320	4
AUG										
27...	480	230	68	76	210	48	4	6.0	--	--
SEP										
23...	490	220	74	74	200	47	4	5.6	310	14

K Results based on colony count outside acceptable range (non-ideal colony count).

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	ALKA-LINITY WH WAT TOTAL FIELD MG/L AS CACO3	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)
OCT , 1986 09...	--	280	280	0.30	16	1100	1100	1.5	395	--
NOV 19...	274	320	290	0.30	14	1200	1200	1.6	305	<0.010
DEC 18...	--	260	240	0.40	16	987	980	1.3	739	--
JAN , 1987 27...	284	270	240	0.40	18	1050	1000	1.4	1880	<0.010
FEB 19...	--	310	250	0.40	19	1080	1100	1.5	2020	--
MAR 24...	287	300	240	0.40	19	1060	1100	1.4	2270	<0.010
APR 14...	--	280	240	0.40	19	1070	1000	1.5	1220	--
MAY 28...	264	280	250	0.30	17	1060	1100	1.4	733	<0.010
JUN 18...	--	230	210	0.40	21	905	900	1.2	1740	--
JUL 29...	264	260	250	0.40	19	1010	1000	1.4	652	<0.010
AUG 27...	--	[illegible]	280	0.40	19	1120	1100	1.5	647	--
SEP 23...	274	260	240	0.30	15	1070	1100	1.5	266	<0.010

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)
OCT , 1986 09...	0.490	--	<0.010	--	--	--	--	--	<0.010	--
NOV 19...	0.600	<0.010	<0.010	--	--	0.70	0.020	<0.010	<0.010	--
DEC 18...	0.490	--	<0.010	--	--	--	--	--	<0.010	--
JAN , 1987 27...	0.720	0.040	0.020	0.03	0.86	0.90	0.100	0.010	<0.010	--
FEB 19...	0.790	--	0.010	0.01	--	--	--	--	<0.010	--
MAR 24...	0.750	0.050	0.020	0.03	[illegible]	0.50	0.030	<0.010	<0.010	--
APR 14...	0.700	--	<0.010	--	--	--	--	--	<0.010	--
MAY 28...	0.630	0.020	<0.010	--	--	1.3	0.040	0.010	<0.010	--
JUN 18...	0.670	--	<0.010	--	--	--	--	--	0.040	0.12
JUL 29...	0.500	0.030	<0.010	--	--	0.60	0.010	<0.010	<0.010	--
AUG 27...	0.420	--	<0.010	--	--	--	--	--	<0.010	--
SEP 23...	0.380	<0.010	<0.010	--	--	0.80	<0.010	<0.010	<0.010	--

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
JAN , 1987 27...	1010	20	11	92	<0.5	1	10	<3	1	4	<5
MAR 24...	1245	<10	2	85	<0.5	<1	<1	<3	3	4	<5
JUL 29...	1020	20	9	87	<0.5	<1	10	<3	1	<3	<5
SEP 23...	1055	<10	9	79	<0.5	<1	10	<3	1	4	<5

10224000 SEVIER RIVER NEAR LYNNDYL, UT--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
JAN , 1987										
27...	64	4	<0.1	<10	<1	1	<1	1000	<6	18
MAR										
24...	60	3	<0.1	<10	2	1	<1	1100	<6	5
JUL										
29...	60	1	0.5	<10	<1	<1	<1	880	<6	3
SEP										
23...	54	13	0.1	<10	<1	1	<1	870	<6	<3

DATE	TIME	BORON, DIS-SOLVED (UG/L AS B)
OCT , 1986		
09...	1100	260
DEC		
18...	1330	260
FEB , 1987		
19...	1450	270
APR		
14...	1400	270
JUN		
18...	1350	240
AUG		
27...	1050	320

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE WATER (DEG C)	SED. SUSP. SIEVE DIAM. PERCENT FINER THAN .062 MM	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV , 1986						
19...	1150	94	8.5	51	40	10
JAN , 1987						
27...	1010	664	3.5	67	510	914
MAR						
24...	1245	794	5.5	88	254	545
MAY						
28...	1445	256	15.0	92	117	81
JUL						
29...	1020	239	21.5	95	169	109
SEP						
23...	1055	92	15.5	90	67	17

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT

LOCATION.--Lat 39°21'23", long 112°13'55", in NE¼NE¼NW¼ sec.7, T.17 S., R.3 W., Millard County, Hydrologic Unit 16030005, Fish Lake National Forest, on right bank 0.3 mi upstream from a 12-inch pipeline diversion at Walker's Fork and 5.7 mi east of Oak City.

DRAINAGE AREA.--5.58 mi^2.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,480 ft from topographic map.

REMARKS.--Records fair except for estimated daily discharges, whichy are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--23 years, 3.29 ft^3/s, 2,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1.0 ft^3/s Apr. 29, 1973, gage height, 2.21 ft; minimum, 0.03 ft^3/s Dec. 31, 1967, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	2100	*5.2	*1.10				

Minimum daily, 0.22 ft^3/s Aug. 28, 29, 31, Sept. 1-2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	1.1	e.78	e.70	e.80	e.94	1.5	4.3	1.9	.49	.38	.22
2	.86	1.1	.80	e.72	e.80	e.98	1.7	4.4	1.8	.44	.36	.22
3	.98	1.1	.80	e.74	e.84	e1.0	2.0	4.2	1.7	.41	.35	.24
4	.91	1.1	.79	e.78	e.83	1.1	2.5	4.1	1.7	.39	.35	.26
5	.83	1.0	.79	e.78	e.82	1.2	2.7	3.9	1.6	.35	.35	.25
6	.83	1.0	.84	e.77	e.82	1.2	2.9	3.7	1.6	.36	.34	.27
7	.81	1.0	.79	e.74	e.82	1.2	3.2	3.4	1.5	.38	.35	.27
8	.82	1.0	.80	e.72	e.82	1.3	3.4	3.4	1.4	.35	.33	.26
9	.82	e.74	e.76	e.70	e.84	1.5	3.5	3.2	1.4	.34	.36	.25
10	.79	e.74	e.68	e.70	e.88	1.3	3.5	3.1	1.3	.35	.33	.25
11	.91	e.74	e.70	e.70	e.90	1.2	3.9	3.0	1.3	.53	.31	.24
12	.92	e.76	e.70	e.70	e.94	1.3	4.0	2.9	1.2	.43	.33	.27
13	.93	e.80	e.72	e.70	e.96	1.3	3.7	2.8	1.2	.36	.32	.31
14	1.0	e.82	e.74	e.69	e.98	1.3	3.8	2.9	1.1	.33	.31	.33
15	1.0	.73	e.76	e.60	e.98	1.4	4.2	2.8	1.1	.30	.35	.32
16	1.0	.73	e.76	e.68	e.90	1.4	4.5	2.7	.99	.30	.37	.31
17	1.0	.76	.73	e.60	e.86	1.4	4.8	2.8	.93	.33	.34	.31
18	1.1	.85	.74	e.62	e.86	1.5	4.9	2.8	.88	.33	.33	.31
19	1.1	.83	.73	e.64	e.84	1.5	5.0	2.6	.82	.34	.31	.29
20	1.1	.79	.73	e.64	e.84	1.5	4.7	2.5	.76	.42	.34	.28
21	1.1	.81	.73	e.62	e.84	1.6	4.4	2.4	.72	1.0	.34	.28
22	1.1	.85	e.72	e.64	e.88	1.7	4.4	2.4	.69	.56	.25	.28
23	1.0	.85	e.70	e.68	e.90	e1.7	4.4	2.3	.66	.44	.26	.28
24	1.0	.83	e.70	e.70	e.86	1.7	4.4	2.3	.63	.41	.28	.29
25	1.0	.86	e.70	e.74	e.85	1.7	4.3	2.2	.63	.39	.27	.31
26	1.0	.83	e.70	e.78	e.88	2.0	4.3	2.2	.60	.42	.26	.31
27	.99	.87	e.71	e.80	e.90	1.8	4.4	2.1	.57	.42	.23	.30
28	1.0	.86	e.71	e.80	e.92	e1.7	4.4	2.2	.59	.45	.22	.31
29	.99	.86	e.70	e.78	---	1.7	4.5	2.1	.57	.46	.22	.31
30	1.1	.84	e.70	e.78	---	1.7	4.5	2.1	.53	.43	.23	.32
31	1.1	---	e.68	e.80	---	1.5	---	2.0	---	.42	.22	---
TOTAL	29.94	26.15	22.89	22.12	24.36	44.32	114.4	89.8	32.37	12.93	9.59	8.45
MEAN	.97	.87	.74	.71	.87	1.43	3.81	2.90	1.08	.42	.31	.28
MAX	1.1	1.1	.84	.80	.98	2.0	5.0	4.4	1.9	1.0	.38	.33
MIN	.79	.73	.68	.60	.80	.94	1.5	2.0	.53	.30	.22	.22
AC-FT	59	52	45	44	48	88	227	178	64	26	19	17

CAL YR 1986 TOTAL 1592.72 MEAN 4.36 MAX 17 MIN .63 AC-FT 3160
WTR YR 1987 TOTAL 437.31 MEAN 1.20 MAX 5.0 MIN .22 AC-FT 867

e Estimated

10234500 BEAVER RIVER NEAR BEAVER, UT

LOCATION.--Lat 38°16'50", long 112°34'25", in SW¼SW¼SE¼ sec.18, T.29 S., R.6 W., Beaver County, Hydrologic Unit 16030007, on left bank 4.2 mi east of Beaver.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--June to September 1906, March 1914 to current year.

REVISED RECORDS.--WDR UT-80-1: 1979.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft from topographic map. Prior to Mar. 30, 1914, nonrecording gage, and Mar 30, 1914 to Oct. 15, 1937, water-stage recorder, at site 800 ft upstream at different datum. Oct. 16, 1937 to Mar. 20, 1959, at site 1,800 ft upstream at different datum. Mar. 21, 1959 to Mar. 21, 1978 at site 3,800 ft upstream at different datum. Mar. 21, 1978 to May 28, 1983, at site 1,800 ft upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No diversion for irrigation above station. Water diverted for hydroelectric power, but returned to stream above station. Some regulation by powerplants and several small reservoirs.

AVERAGE DISCHARGE.--73 years, 53.2 ft^3/s, 38,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft^3/s July 22, 1936, gage height, 7.27 ft, site and datum then in use, from rating curve extended above 500 ft^3/s; minimum, 1.8 ft^3/s Dec. 6, 1976, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 15	2200	*169	*1.52	No other peak greater than base discharge.			

Minimum daily discharge, 20 ft^3/s Dec. 25-27, Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	32	28	e23	22	e22	30	123	122	90	47	31
2	39	31	28	e24	23	22	37	110	125	87	45	[illegible]
3	38	31	27	24	22	23	42	106	128	85	47	31
4	38	31	28	24	23	24	39	110	126	83	47	31
5	38	31	28	24	22	27	33	123	125	80	45	[illegible]
6	40	31	28	e24	22	26	33	124	134	80	45	[illegible]
7	41	29	28	e24	22	26	32	121	135	78	65	[illegible]
8	41	28	27	24	21	26	31	117	130	78	57	[illegible]
9	41	29	26	e23	21	26	36	110	123	79	47	[illegible]
10	41	27	e21	e20	21	24	43	108	118	78	44	[illegible]
11	41	31	e23	e21	21	25	50	102	118	77	43	32
12	39	29	e24	e22	22	26	46	103	118	80	50	[illegible]
13	37	30	e24	e23	23	31	45	124	114	75	48	31
14	37	30	e23	e24	22	25	60	121	107	75	46	28
15	37	29	e23	e24	23	26	72	125	107	73	46	[illegible]
16	37	30	e23	e23	23	25	83	135	105	75	44	[illegible]
17	37	30	e22	e23	22	25	97	143	96	81	44	[illegible]
18	37	31	e21	e23	22	25	100	135	90	72	42	27
19	35	38	e21	e22	22	25	88	128	87	70	40	27
20	35	32	e21	e22	e22	25	67	124	87	69	39	26
21	35	31	e21	e22	e22	24	63	117	82	73	43	25
22	34	30	e21	e21	e22	24	76	105	81	67	44	25
23	33	28	e21	e21	e22	25	89	96	84	69	45	25
24	33	28	e21	e21	e22	24	92	90	82	68	47	25
25	32	29	e20	e22	e22	23	86	92	80	67	46	24
26	30	29	e20	e22	e21	23	87	101	84	69	39	25
27	30	27	e20	e22	e21	23	104	105	97	69	37	26
28	31	27	e21	23	e21	e23	122	105	97	65	36	23
29	31	30	e22	23	---	23	130	108	95	50	36	23
30	32	28	e22	23	---	e24	129	109	94	51	36	21
31	31	---	e23	22	---	25	---	116	---	50	33	---
TOTAL	1119	896	725	703	614	765	2042	3536	3171	2263	1373	848
MEAN	36.1	29.9	23.4	22.7	21.9	24.7	68.1	114	106	73.0	44.3	28.3
MAX	41	38	28	24	23	31	130	143	135	90	65	34
MIN	30	27	20	20	21	22	30	90	80	50	33	21
AC-FT	2220	1780	1440	1390	1220	1520	4050	7010	6290	4490	2720	1680

CAL YR 1986	TOTAL	26619	MEAN	72.9	MAX	313	MIN	20	AC-FT	52800
WTR YR 1987	TOTAL	18056	MEAN	49.5	MAX	143	MIN	20	AC-FT	35810

e Estimated

10237000 BEAVER RIVER AT ADAMSVILLE, UT

LOCATION.--Lat 38°15'13", long 112°45'56", in NE¼SW¼SW¼ sec.28, T.29 S., R.8 W., Beaver County, Hydrologic Unit 16030007, on right bank 80 ft upstream from bridge on State Highway 21, 1.6 mi upstream from Indian Creek, and 1.6 mi east of Adamsville.

DRAINAGE AREA.--303 mi².

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,550 ft from topographic map. Prior to Sept. 15, 1936, water-stage recorder and Sept. 15, 1936, to Oct. 15, 1937, nonrecording gage, at site 1.1 mi downstream at different datum. Oct. 16, 1937, to May 28, 1946, water-stage recorder at site 1.2 mi downstream at different datum. May 29, 1946, to Mar. 19, 1970 at site 1.75 mi downstream at different datum. Mar. 20, 1970, to July 25, 1979 at site 450 ft downstream at different datum.

REMARKS.--Records poor. One small diversion between station and Minersville Reservoir. Several ditches above station divert practically entire flow during irrigation season to supply Adamsville and Beaver districts.

AVERAGE DISCHARGE.--73 years (1914-87), 39.6 ft³/s, 28,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft³/s June 19, 20, 1983; no flow during summer and fall months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87 ft³/s Dec. 6, gage height, 4.22 ft; no flow July 11, 18-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	56	52	e43	45	59	e13	6.3	4.5	.11	.94	2.4
2	44	63	54	e43	45	56	e12	6.3	4.1	.11	.65	2.5
3	42	67	54	e44	51	55	e12	6.2	4.0	.09	.79	2.3
4	42	62	53	e44	50	57	e11	6.4	3.8	.08	1.1	2.5
5	42	62	54	e45	47	57	e10	6.5	3.6	.14	1.0	2.5
6	43	62	69	e44	e40	57	e10	6.5	3.2	.17	1.2	2.6
7	47	64	66	e41	e42	59	e9.8	6.4	3.2	.25	.68	3.0
8	43	63	58	e39	e45	62	e9.6	6.3	3.0	.18	.84	3.1
9	41	62	54	e38	e47	62	e9.4	6.4	2.8	.15	1.4	3.4
10	42	63	e41	e37	e49	e62	e9.0	6.3	2.6	.06	1.4	3.4
11	38	65	e43	e41	e51	e62	e8.8	6.4	2.2	.00	1.1	3.3
12	42	64	e44	e41	e54	e62	e8.6	6.1	2.0	.10	1.0	3.3
13	45	64	e46	e39	e55	e62	e8.4	6.1	.85	.18	.99	3.2
14	51	64	e47	e38	e58	e63	e8.3	6.1	.67	.28	.98	3.5
15	49	63	e48	e37	e59	e81	e8.1	6.0	.38	.25	1.2	3.7
16	49	64	e48	e36	e54	e71	e8.0	6.0	.23	.07	1.4	4.0
17	48	59	e48	e35	e51	e66	e7.9	6.0	.15	.02	1.4	3.9
18	47	60	e49	e35	e49	e58	e7.8	6.0	.13	.00	1.5	4.2
19	47	64	e50	e38	e46	e68	e7.6	6.0	.22	.00	1.6	4.2
20	48	57	e47	e35	e46	e80	e7.3	5.9	.21	.00	1.3	4.4
21	48	55	e46	e42	e46	e74	e7.2	5.8	.19	.02	1.6	4.6
22	49	54	e44	e46	e51	e70	e7.0	6.0	.07	.03	1.5	4.9
23	49	51	e44	e50	e55	e64	e6.9	5.9	.21	.07	1.6	5.1
24	50	49	e44	e49	50	e60	e6.8	5.9	.24	.20	1.7	4.9
25	50	52	e43	e47	60	e36	e6.7	5.9	.25	.09	1.9	5.1
26	49	52	e44	45	58	e25	e6.6	5.8	.19	.05	1.8	5.2
27	48	53	45	40	52	e22	e6.6	5.5	.10	.11	1.8	5.2
28	48	55	e45	42	56	e18	6.5	5.5	.10	.18	1.7	5.4
29	49	56	e44	38	---	e17	6.4	5.2	.06	.38	2.0	5.3
30	51	55	e44	38	---	e15	6.4	5.0	.15	.55	2.1	5.3
31	52	---	e43	38	---	e14	---	4.9	---	.68	2.3	---
TOTAL	1436	1780	1511	1268	1412	1674	253.7	185.6	43.41	4.60	42.47	116.4
MEAN	46.3	59.3	48.7	40.9	50.4	54.0	8.46	5.99	1.45	.15	1.37	3.88
MAX	52	67	69	50	60	81	13	6.5	4.5	.68	2.3	5.4
MIN	38	49	41	35	40	14	6.4	4.9	.06	.00	.65	2.3
AC-FT	2850	3530	3000	2520	2800	3320	503	368	86	9.1	84	231

CAL YR 1986 TOTAL 4727.00 MEAN 51.4 MAX 69 MIN 38 AC-FT 9380
WTR YR 1987 TOTAL 9727.04 MEAN 26.6 MAX 81 MIN .00 AC-FT 19290

e Estimated

10238500 MINERSVILLE RESERVOIR NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'05", in SE¼NE¼NW¼ sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, at right end of Rocky Ford Dam on Beaver River, 5.0 mi east of Minersville.

DRAINAGE AREA.--534 mi^2.

PERIOD OF RECORD.--April to August 1915, November 1915 to September 1917, December 1917 to March 1921, June to September 1922, October 1937 to current year. Month-end contents only for some periods, published in WSP 1314. Published as Rockyford Reservoir near Minersville prior to October 1, 1967.

REVISED RECORDS.--WDR UT-75-1: Drainage area.

GAGE.--Staff gage. Datum of gage is at 5,452.0 ft NGVD of 1929 (levels by topographic survey).

REMARKS.--Reservoir is formed by earthfill dam completed in 1914. Capacity, 23,260 acre-ft between gage height, 8.0 ft (bottom of outlet tunnel) and 51.0 ft (spillway crest). Prior to fall of 1937, the spillway crest was at elevation 52.5 ft; capacity, 24,910 acre-ft. Dead storage negligible. Figures given herein represent total contents. Water is used for irrigation in vicinity of Minersville and Milford.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 26,330 acre-ft June 24-29, 1969, gage height, 53.8 ft. No contents at times in 1915, 1918-19, 1939, 1956, and 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 25,610 acre-ft Apr. 27, gage height, 54.6 ft; minimum observed, 6,600 acre-ft, Sept. 25, gage height, 31.7 ft.

MONTHEND ELEVATION, IN FEET, AND CONTENTS AT 2400, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	-	*8,520	-
Oct. 31	-	*11,720	+3,200
Nov. 30	-	*14,660	+2,940
Dec. 31	-	*16,820	+2,160
CAL YR 1986	-	-	+1,090
Jan. 31	-	*18,660	+1,840
Feb. 28	-	*21,150	+2,490
Mar. 31	52.9	23,740	+2,590
Apr. 30	-	*24,970	+1,230
May 31	-	*19,350	-5,620
June 30	-	*15,260	-4,090
July 31	-	*10,980	-4,280
Aug. 31	-	*7,500	-3,480
Sept. 30	-	*6,760	-740
WTR YR 1987	-	-	-1,760

(*) No gage height reading, contents interpolated.

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT

LOCATION.--Lat 38°13'03", long 112°50'22", in SE¼NW¼NW¼ sec.11, T.30 S., R.9 W., Beaver County, Hydrologic Unit 16030007, on right bank and 0.5 mi downstream from Rocky Ford Dam and 4.8 mi east of Minersville.

DRAINAGE AREA.--535 mi^2.

PERIOD OF RECORD.--December 1913 to September 1936, April 1937 to current year.

REVISED RECORDS.--WSP 1564: 1920, 1924. WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1916. Altitude of gage is 5,400 ft by barometer. Prior to June 1, 1916, at site 1,500 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. One small diversion between dam and station. Flow regulated by Minersville Reservoir (formerly published as Rockyford Reservoir). Numerous diversions for irrigation and municipal use above reservoir.

AVERAGE DISCHARGE.--72 years (1914-36, 1937-87), 41.5 ft^3/s, 30,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s June 12, 1983, gage height, 4.74 ft, from rating curve extended above 500 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.4 ft^3/s Mar. 20, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 148 ft^3/s June 26, 27; minimum daily, 7.6 ft^3/s Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.3	7.7	10	10	12	14	107	113	116	68	97
2	7.7	8.3	8.0	10	10	13	14	109	116	115	68	101
3	7.7	8.3	8.3	11	10	13	14	111	100	114	68	101
4	7.7	8.1	8.3	11	10	13	14	118	108	115	67	90
5	7.6	8.1	8.3	11	10	13	14	120	94	116	78	80
6	7.7	8.3	8.7	11	11	14	14	119	71	121	95	70
7	7.7	8.3	8.3	11	11	13	15	119	47	115	118	53
8	7.7	7.9	7.7	11	11	13	15	118	50	116	111	51
9	7.7	7.7	7.9	9.7	11	13	16	116	54	130	104	41
10	7.7	7.9	8.3	9.6	12	13	16	117	44	129	101	35
11	8.2	7.9	8.3	9.5	12	14	17	115	46	128	100	42
12	8.1	7.8	8.3	9.5	12	14	60	111	56	128	100	41
13	7.8	7.9	8.4	9.7	12	14	46	100	59	127	93	33
14	8.1	8.0	8.4	9.7	12	14	20	98	63	126	89	33
15	8.3	8.8	8.3	9.5	12	13	20	95	66	126	94	32
16	8.3	8.8	8.6	9.0	12	13	20	91	68	126	94	32
17	8.3	8.9	9.0	9.0	12	13	20	89	68	120	96	18
18	8.3	8.7	9.4	9.2	12	13	20	92	79	89	115	9.5
19	8.3	8.6	9.7	9.7	13	13	21	92	126	64	122	9.3
20	8.3	8.7	9.7	9.7	13	13	20	87	122	40	133	9.3
21	7.8	8.7	9.7	9.7	13	13	18	91	128	40	135	9.0
22	7.7	8.3	9.7	9.7	13	13	18	95	138	38	130	9.0
23	7.7	8.3	9.7	9.7	13	13	19	94	138	28	120	9.2
24	7.7	8.3	9.7	9.9	13	13	19	94	142	25	120	9.5
25	8.0	8.0	9.7	9.8	13	13	19	93	147	25	116	9.4
26	8.5	7.7	9.7	9.6	13	13	23	98	148	25	112	15
27	8.4	7.7	9.7	9.7	13	14	50	97	148	25	112	20
28	8.3	7.7	9.7	10	12	13	63	92	144	31	111	9.3
29	8.3	7.7	9.7	10	---	13	90	91	136	45	103	9.0
30	8.3	7.7	9.8	9.9	---	13	103	91	125	69	94	9.0
31	8.3	---	9.9	10	---	13	---	95	---	68	90	---
TOTAL	247.9	245.4	276.6	307.8	331	408	832	3155	2944	2680	3155	1086.5
MEAN	8.00	8.18	8.92	9.93	11.8	13.2	27.7	102	98.1	86.5	102	36.2
MAX	8.5	8.9	9.9	11	13	14	103	120	148	130	135	101
MIN	7.6	7.7	7.7	9.0	10	12	14	87	44	25	67	9.0
AC-FT	492	487	549	611	657	809	1650	6260	5840	5320	6260	2160

CAL YR 1986 TOTAL 23183.8 MEAN 63.5 MAX 218 MIN 7.1 AC-FT 45990
WTR YR 1987 TOTAL 15669.2 MEAN 42.9 MAX 148 MIN 7.6 AC-FT 31080

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT

LOCATION.--Lat 37°47'35", long 112°48'55", in SW¼NE¼NE¼ sec.1, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft above Parowan Creek and 3.5 mi south of Parowan.

DRAINAGE AREA.--11.6 mi^2.

PERIOD OF RECORD.--October 1964 to September 1987 (discontinued).

REVISED RECORDS.--WDR UT-78-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,900 ft from topographic map.

REMARKS.--Records fair. No diversion or regulation above station.

AVERAGE DISCHARGE.--23 years, 6.57 ft^3/s, 4,760 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 353 ft^3/s Aug. 10, 1965, gage height, 4.96 ft from floodmarks, from rating curve extended above 18 ft^3/s on basis of slope-area measurements at gage height 4.96 ft; minimum recorded, 1.4 ft^3/s July 16, 1972 and Jan. 24, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 7	2100	*146	*3.29	No other peak greater than base discharge.			

Minimum daily discharge, 3.1 ft^3/s Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.8	e4.5	4.9	4.9	e5.1	6.7	8.4	7.5	8.2	5.7	4.7
2	5.1	4.9	5.0	4.9	4.9	e5.4	6.9	8.0	7.5	8.1	5.7	4.8
3	5.0	4.8	5.0	4.9	5.0	5.7	6.8	7.9	7.5	8.1	5.7	4.8
4	4.9	4.8	4.9	5.0	5.0	5.8	6.6	7.6	7.5	8.0	5.6	4.8
5	4.9	4.8	5.0	5.0	5.0	5.7	6.4	7.6	7.5	8.0	5.6	4.9
6	4.8	4.9	5.1	5.0	5.0	5.8	6.4	7.6	7.6	7.8	5.6	4.9
7	4.8	4.8	5.0	5.0	5.0	5.8	6.6	7.6	7.6	7.5	9.8	5.0
8	4.7	4.8	5.0	5.0	5.0	5.9	6.8	7.6	7.4	7.4	6.5	4.9
9	4.7	e4.7	5.0	e3.9	5.0	5.8	7.0	7.6	7.5	7.2	5.1	5.0
10	4.7	5.0	e3.8	e3.5	5.1	5.8	7.2	7.5	7.6	7.1	4.7	4.9
11	4.9	5.1	e3.2	e3.7	5.2	5.8	7.7	7.3	7.6	7.0	4.6	4.5
12	4.8	4.8	e3.1	e3.8	5.2	5.8	7.2	7.2	7.5	6.9	4.6	4.6
13	4.8	4.8	e3.3	e3.7	5.1	5.9	6.8	7.1	7.6	6.7	4.5	4.6
14	4.8	4.9	3.8	e3.7	e5.0	5.8	7.2	8.2	7.8	6.6	4.3	4.7
15	4.8	4.9	4.9	e3.7	e4.7	5.9	7.7	8.6	7.9	6.5	4.2	4.7
16	4.7	4.9	4.8	e3.5	e5.2	5.8	8.6	8.6	8.0	6.4	4.2	4.6
17	4.7	4.9	4.8	e3.3	e5.2	5.9	8.5	8.5	8.2	6.7	4.3	4.6
18	4.6	5.1	4.9	e3.5	e5.0	6.2	8.6	8.4	8.3	6.3	4.3	4.5
19	4.7	5.1	4.8	e3.7	e4.8	6.2	7.8	8.5	8.4	6.2	4.2	4.5
20	4.7	4.9	4.8	e3.5	e4.7	6.2	7.1	8.7	8.6	6.6	4.2	4.5
21	4.8	4.9	4.9	e4.1	e5.0	6.3	7.0	8.4	8.7	6.6	5.1	4.5
22	4.7	4.9	e4.6	5.0	e5.3	6.2	7.3	8.0	8.9	6.1	5.5	4.4
23	4.7	4.7	e4.3	5.0	e5.2	e6.0	8.0	7.9	9.0	6.0	5.7	4.4
24	4.7	4.8	e4.1	5.0	e5.1	e5.8	8.0	7.8	9.4	5.9	5.3	4.4
25	4.7	5.0	e4.0	5.0	e4.9	e5.8	8.1	7.9	9.4	5.9	4.5	4.3
26	4.8	e4.6	e3.9	5.0	e4.7	e5.8	8.3	7.9	9.3	8.1	4.5	4.3
27	4.8	e4.7	e3.8	5.0	e4.7	e5.8	8.5	7.7	9.2	6.4	4.5	4.2
28	4.7	5.0	e3.7	5.1	e4.8	e5.7	8.4	7.8	8.6	6.1	4.6	4.1
29	4.7	5.0	e3.7	5.0	---	e5.8	8.5	7.8	8.4	6.1	4.7	4.0
30	4.7	5.0	e4.0	5.0	---	e6.2	8.5	7.7	8.3	5.9	4.6	4.0
31	4.9	---	e4.3	5.0	---	6.5	---	7.6	---	5.8	4.7	---
TOTAL	148.3	146.3	136.1	137.4	139.7	182.2	225.2	245.0	244.3	212.2	157.1	137.1
MEAN	4.78	4.88	4.39	4.43	4.99	5.88	7.51	7.90	8.14	6.85	5.07	4.57
MAX	5.1	5.1	5.1	5.1	5.3	6.5	8.6	8.7	9.4	8.2	9.8	5.0
MIN	4.6	4.6	3.1	3.3	4.7	5.1	6.4	7.1	7.4	5.8	4.2	4.0
AC-FT	294	290	270	273	277	361	447	486	485	421	312	272

CAL YR 1986 TOTAL 2203.1 MEAN 6.04 MAX 12 MIN 3.1 AC-FT 4370
WTR YR 1987 TOTAL 2110.9 MEAN 5.78 MAX 9.8 MIN 3.1 AC-FT 4190

e Estimated

10241600 SUMMIT CREEK NEAR SUMMIT, UT

LOCATION.--Lat 37°47'13", long 112°54'56", in NW¼NE¼SW¼ sec.6, T.35 S., R.9 W., Iron County, Hydrologic Unit 16030006, on left bank about 900 ft upstream from concrete diversion dam, 1.2 mi south of U.S. Highway 91, and 1.3 mi southeast of Summit.

DRAINAGE AREA.--24.0 mi^2.

PERIOD OF RECORD.--October 1964 to September 1987 (discontinued).

REVISED RECORDS.--WDR UT-78-1: Drainage area. WDR UT-84-1: 1971, 1983 (M).

GAGE.--Water-stage recorder. Altitude of gage is 6,313 ft (levels by U.S. Geological Survey). Prior to July 15, 1971, at site 600 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--23 years, 4.71 ft^3/s, 3,410 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 795 ft^3/s July 28, 1969, gage height, 5.20 ft from rating curve extended on basis of slope-area measurement of peak flow; minimum, 0.05 ft^3/s Feb. 5-7, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 27	2100	*51	*2.94	Aug. 22	2200	19	2.73
Aug. 7	2100	19	2.74	Aug. 24	1300	28	2.80

Minimum daily discharge, 1.6 ft^3/s Feb. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	2.6	2.9	2.4	1.7	e1.8	3.0	30	9.4	2.8	1.8	2.0
2	2.7	2.7	2.9	2.6	1.7	1.9	3.3	23	8.8	2.8	1.8	2.1
3	2.5	2.7	3.0	2.6	1.7	1.9	3.6	21	8.4	2.8	1.8	1.9
4	2.2	2.6	3.0	2.7	1.7	2.0	3.3	22	8.1	2.8	1.9	2.0
5	2.3	2.7	3.1	2.8	1.7	2.2	3.1	23	8.0	2.7	1.8	2.2
5	2.4	2.7	3.2	2.6	1.7	2.2	3.1	22	8.1	2.6	2.0	2.2
7	2.3	2.2	3.0	2.5	1.7	2.3	3.2	21	8.0	2.5	4.5	2.C
8	2.5	2.3	e2.9	e2.4	1.7	2.3	3.3	19	7.4	2.4	4.4	1.9
9	2.7	1.9	e2.8	e2.3	1.7	2.2	3.7	19	7.1	2.3	2.3	1.9
10	2.5	1.8	e2.6	e2.1	1.6	2.1	4.3	19	6.7	2.3	2.1	1.8
11	3.1	1.8	e2.5	e2.1	1.8	2.2	5.4	18	6.2	2.3	2.0	1.8
12	2.6	2.1	e3.1	e2.1	2.1	2.2	5.4	18	5.8	2.2	2.3	1.8
13	2.4	2.4	3.2	2.2	1.9	2.3	5.0	18	5.7	2.1	2.1	1.8
14	2.5	2.6	3.3	2.2	2.0	2.3	6.6	18	5.4	2.0	1.9	1.9
15	2.7	2.7	3.3	2.5	2.1	2.4	9.1	19	5.1	2.0	1.8	1.9
16	2.7	2.7	3.3	2.3	2.1	2.1	13	18	4.9	2.1	1.7	1.7
17	2.7	2.7	3.3	2.3	2.0	2.0	16	18	4.7	3.5	1.7	1.7
18	2.8	3.3	3.3	2.2	2.0	2.0	18	17	4.4	2.4	1.7	1.7
19	2.7	3.4	3.3	2.2	2.1	2.2	18	17	4.2	2.2	1.7	1.7
20	2.7	3.0	3.2	2.2	2.0	1.7	13	16	4.0	2.5	2.0	1.7
21	2.6	3.1	3.0	2.1	e1.9	2.1	14	16	3.9	3.1	2.1	1.7
22	2.6	3.0	e2.9	2.1	e1.9	2.2	17	14	3.7	2.5	3.3	1.7
23	2.5	2.2	3.2	2.1	e2.0	2.3	20	13	3.6	2.2	4.2	1.7
24	2.5	2.6	e3.0	1.8	e1.9	2.3	20	13	3.4	2.0	3.7	1.8
25	2.4	2.7	e2.8	1.8	e1.8	2.1	20	12	3.3	2.0	2.7	2.9
26	2.4	2.1	e2.7	1.7	e1.8	2.2	21	12	3.2	2.2	2.4	2.9
27	2.4	2.3	2.7	1.7	e1.8	2.2	26	12	3.1	2.3	2.2	2.9
28	2.4	2.6	e2.5	1.9	e1.8	2.4	30	12	3.2	2.1	2.2	2.2
29	2.4	2.9	e2.3	1.8	---	2.3	30	12	3.1	2.2	2.1	2.2
30	2.4	2.9	2.4	1.8	---	e2.2	32	11	2.9	2.1	2.1	2.1
31	2.7	---	e2.4	1.8	---	2.5	---	10	---	2.0	2.0	---
TOTAL	78.7	77.3	91.1	67.9	51.9	67.1	373.4	533	163.8	74.0	72.3	59.8
MEAN	2.54	2.58	2.94	2.19	1.85	2.16	12.4	17.2	5.46	2.39	2.33	1.99
MAX	3.1	3.4	3.3	2.8	2.1	2.5	32	30	9.4	3.5	4.5	2.9
MIN	2.2	1.8	2.3	1.7	1.6	1.7	3.0	10	2.9	2.0	1.7	1.7
AC-FT	156	153	181	135	103	133	741	1060	325	147	143	119

CAL YR 1986 TOTAL 1492.8 MEAN 4.09 MAX 16 MIN 1.0 AC-FT 2960
WTR YR 1987 TOTAL 1710.3 MEAN 4.69 MAX 32 MIN 1.6 AC-FT 3390

e Estimated

10242000 COAL CREEK NEAR CEDAR CITY, UT

LOCATION.--Lat 37°40'20", long 113°02'02", in SE¼SE¼NE¼ sec.13, T.36 S., R.11 W., Iron County, Hydrologic Unit 16030006, on right bank 600 ft downstream from powerplant, 1.2 mi east of Cedar City, and 3.0 mi from the mouth of Right Hand Creek.

DRAINAGE AREA.--80.9 mi^2.

PERIOD OF RECORD.--May to September 1915 (gage heights and discharge measurements only), October 1915 to July 1916, September 1916 to July 1918, September 1918 to November 1919, May 1935 to September 1937, April 1938 to current year. Records prior to November 1919 exclude flow of power canal; records would be equivalent if flow in canal added.

REVISED RECORD.--WSP 1714: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,000 ft from topographic map. Prior to Mar. 30, 1939, nonrecording gages and Mar. 30, 1939 to May 14, 1945, water-stage recorder at several sites about 0.5 mi upstream at various datums. May 15, 1945 to Oct. 10, 1951, May 4 to July 2, 1952, water-stage recorder at site 2 mi upstream at different datum. July 3, 1952 to Nov. 17, 1967, water-stage recorder at site 600 ft upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No diversion [illegible] station for irrigation. Diversion above station for municipal supply at Cedar City.

AVERAGE DISCHARGE.--51 years (1935-37, 1938-87), 33.8 ft^3/s, 24,490 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,620 ft^3/s July 23, 1969, gage height, 11.67 ft from floodmark, based on slope-area measurement of July 16, 1967 and applied to site and datum now in use; minimum, 0.3 ft^3/s Nov. 5, 14, 17, 26, 1959, Feb. 17, 1960, Feb. 24, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 23	2000	*840	*7.50	No other peak greater than base discharge.			

Minimum daily discharge, 5.0 ft^3/s Jan. 17-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	17	e9.6	12	9.9	e10	34	229	48	19	13	10
2	31	18	e9.6	12	11	12	50	199	45	18	13	10
3	25	18	e9.6	12	10	14	44	184	44	18	15	9.9
4	22	16	e10	11	10	18	27	188	44	17	14	9.9
5	24	16	12	12	e9.7	21	21	191	45	17	15	10
6	24	17	12	12	e9.6	18	23	179	47	16	14	12
7	22	14	12	12	e10	17	24	173	49	16	17	12
8	23	e12	11	11	11	15	32	165	44	15	32	10
9	22	e11	e9.0	e8.0	11	14	43	152	41	15	21	9.7
10	22	e11	e6.5	e6.3	11	15	57	144	38	15	21	9.4
11	30	e12	e7.0	e6.4	12	20	53	135	35	15	14	9.3
12	25	e13	e8.5	e6.6	13	24	44	110	32	14	19	9.2
13	25	e14	e9.5	e6.8	12	27	48	108	32	14	20	9.5
14	24	14	e10	e6.2	e10	18	68	109	31	13	13	9.8
15	23	14	e12	e6.0	e11	16	78	117	29	13	12	9.4
16	22	14	e11	e5.4	e11	15	91	126	27	13	12	9.1
17	20	14	e10	e5.0	e10	15	104	147	26	27	12	8.9
18	18	22	e10	e5.0	e10	e14	113	114	25	16	12	8.7
19	17	22	e11	e5.0	e10	e15	88	100	24	14	12	8.7
20	16	17	e10	e5.0	e10	e13	68	97	23	25	12	8.5
21	20	16	e9.6	e5.0	e11	e13	75	93	22	55	11	8.5
22	20	e13	e9.2	e5.2	e11	e13	100	80	22	24	13	8.4
23	19	e10	e10	e5.2	e10	e13	120	70	22	17	58	8.5
24	18	e11	e9.6	e5.2	e9.5	e13	134	65	22	15	37	9.2
25	17	e12	e9.6	e5.4	e9.3	e12	133	61	21	14	17	14
26	16	e11	e9.6	5.5	e9.2	e13	130	56	21	17	14	10
27	16	12	e10	6.5	e9.0	e12	160	58	24	17	12	9.8
28	16	13	e9.6	6.8	e9.0	e12	201	59	24	17	12	9.6
29	16	13	e9.6	6.6	---	e12	230	57	22	17	11	9.3
30	16	e11	e9.6	7.1	---	e12	256	55	20	16	11	9.3
31	18	---	e9.8	8.6	---	20	---	51	---	14	10	---
TOTAL	660	428	306.5	232.8	290.2	476	2649	3672	949	553	519	290.6
MEAN	21.3	14.3	9.89	7.51	10.4	15.4	88.3	118	31.6	17.8	16.7	9.69
MAX	31	22	12	12	13	27	256	229	49	55	58	14
MIN	16	10	6.5	5.0	9.0	10	21	51	20	13	10	8.4
AC-FT	1310	849	608	462	576	944	5250	7280	1880	1100	1030	576

CAL YR 1986	TOTAL	12669.6	MEAN	34.7	MAX	224	MIN	6.5	AC-FT	25130
WTR YR 1987	TOTAL	11026.1	MEAN	30.2	MAX	256	MIN	5.0	AC-FT	21870

e Estimated

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE¼SW¼SW¼ sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi southeast of Yost, 5 mi south of Utah-Idaho State line, and 16 mi southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi^2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--28 years, 8.10 ft^3/s, 5,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft^3/s May 30, 1983, gage height, 1.78 ft; minimum, 1.0 ft^3/s July 14-19, 1976, Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43 ft^3/s May 17, gage height, 1.06 ft; minimum daily, 1.6 ft^3/s Jan. 1, Mar. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.2	2.9	1.6	e2.7	e2.2	2.2	19	20	4.7	3.3	2.4
2	3.5	3.1	2.9	1.9	e2.8	e2.3	3.2	17	19	4.5	3.3	2.4
3	3.5	3.3	3.0	2.1	e2.7	2.3	4.0	15	18	4.4	3.2	2.4
4	3.5	3.1	3.0	2.2	e2.5	2.4	4.6	14	16	4.8	3.1	2.4
5	3.5	3.1	2.9	2.2	e2.3	2.4	4.4	14	15	4.3	3.0	2.4
6	3.5	3.1	2.9	2.3	e2.3	3.0	4.9	15	15	4.3	2.9	2.3
7	3.5	3.1	2.7	2.3	e2.3	3.2	5.1	17	15	4.2	2.8	2.4
8	3.5	3.1	2.7	2.3	e2.3	3.0	4.7	19	15	4.2	2.8	2.3
9	3.4	2.9	2.5	2.2	e2.2	2.6	4.0	21	14	4.2	2.7	2.3
10	3.5	2.8	2.5	2.2	e2.3	2.3	4.5	21	13	4.4	2.7	2.3
11	3.5	2.9	2.4	2.2	e2.4	2.2	4.7	20	13	4.1	2.7	2.3
12	3.5	2.8	2.5	2.3	e2.4	2.2	3.8	21	12	3.9	2.6	2.3
13	3.5	2.8	2.7	2.3	e2.8	2.2	3.5	21	11	3.7	2.6	2.3
14	3.5	2.8	2.7	2.2	e2.6	2.1	4.2	22	11	3.6	3.2	2.3
15	3.5	2.7	e2.6	2.2	e2.5	2.1	5.8	22	11	3.5	3.1	2.4
16	3.5	2.7	e2.4	2.2	e2.6	2.0	8.2	26	9.8	3.5	2.9	2.4
17	3.5	2.7	2.2	2.2	e2.5	1.9	11	31	9.5	5.1	2.8	2.3
18	3.9	2.7	2.2	2.3	e2.4	1.8	11	31	9.1	4.1	2.8	2.2
19	3.9	3.0	2.4	2.3	e2.5	1.8	8.6	29	8.7	3.7	2.7	2.3
20	3.8	3.2	2.4	2.3	e2.4	1.8	6.8	28	8.2	3.5	2.7	2.2
21	3.4	3.4	2.3	e2.2	e2.4	1.8	6.5	26	7.7	6.1	3.0	2.2
22	3.3	3.0	2.3	e2.1	e2.3	1.7	8.9	25	7.3	4.2	2.9	2.2
23	3.3	3.5	2.3	e2.1	e2.3	1.7	12	25	6.8	3.7	2.6	2.3
24	3.2	3.3	2.3	e2.1	e2.2	1.7	14	25	6.4	3.5	2.8	2.3
25	3.1	3.0	2.2	e2.2	e2.1	1.7	15	26	5.8	3.3	2.8	2.3
26	3.2	3.0	2.2	2.3	e2.1	1.7	15	26	5.1	3.3	2.6	2.3
27	3.1	3.1	2.2	2.3	e2.1	1.7	16	25	5.1	3.5	2.5	2.3
28	3.1	3.1	2.1	2.5	e2.2	1.6	19	24	4.9	3.5	2.5	2.3
29	3.2	3.1	1.9	2.5	---	1.6	19	23	5.0	3.5	2.4	2.3
30	3.3	2.9	2.0	2.6	---	1.6	21	23	5.0	3.5	2.5	2.3
31	3.3	---	1.8	2.7	---	1.7	---	22	---	3.4	2.4	---
TOTAL	106.5	90.5	76.1	69.4	67.2	64.3	255.6	693	322.4	124.2	86.9	69.4
MEAN	3.44	3.02	2.45	2.24	2.40	2.07	8.52	22.4	10.7	4.01	2.80	2.31
MAX	3.9	3.5	3.0	2.7	2.8	3.2	21	31	20	6.1	3.3	2.4
MIN	3.1	2.7	1.8	1.6	2.1	1.6	2.2	14	4.9	3.3	2.4	2.2
AC-FT	211	180	151	138	133	128	507	1370	639	246	172	138

CAL YR 1986 TOTAL 4086.5 MEAN 11.2 MAX 107 MIN 1.8 AC-FT 8110
WTR YR 1987 TOTAL 2025.5 MEAN 5.55 MAX 31 MIN 1.6 AC-FT 4020

e Estimated

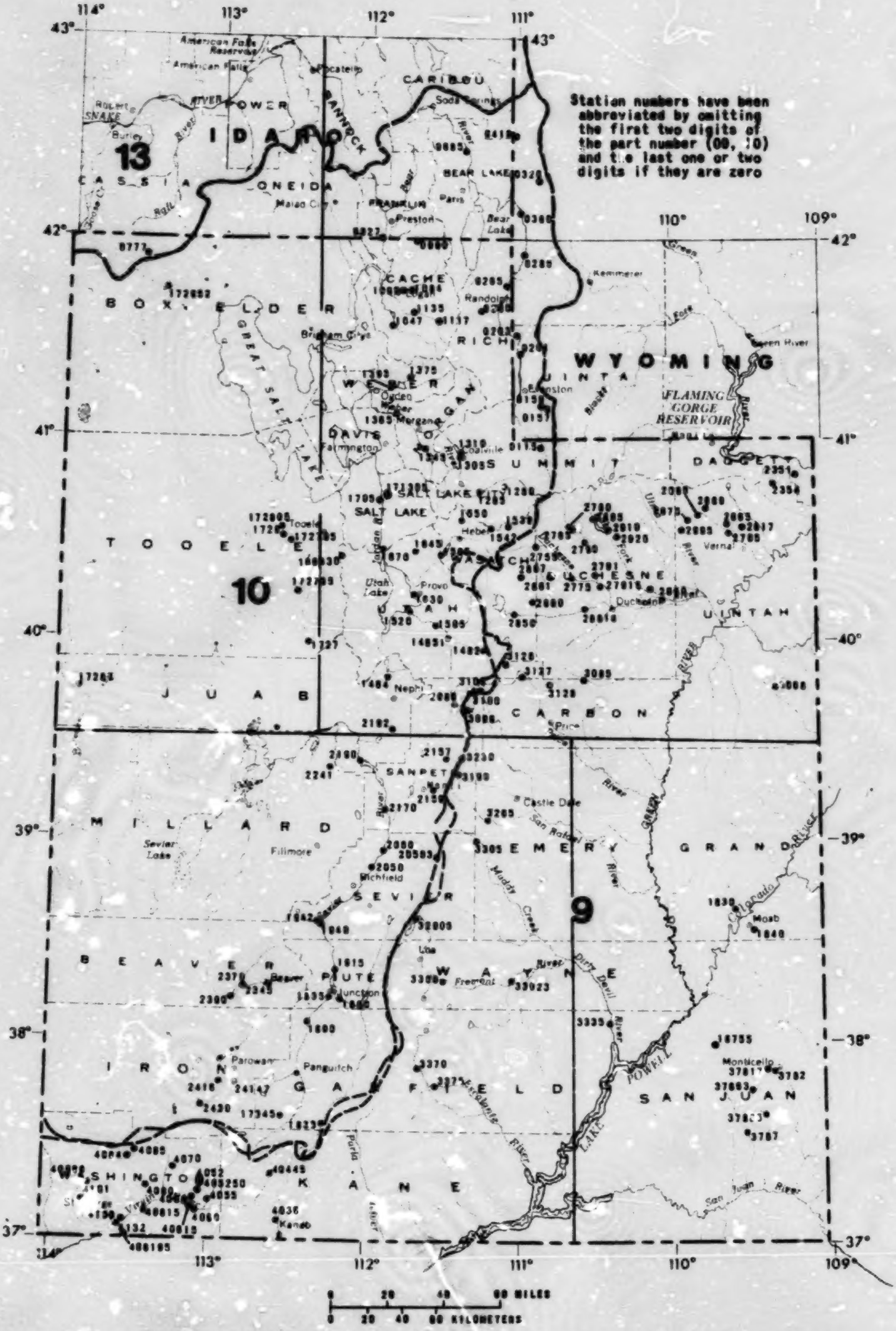
GREAT SALT LAKE BASIN

Compilation of data through the 300 ft breach opening

Lat 41°13'20", long 112°50'30"
1.2 mi east of Lakeside and 1500 ft
east of west shore

Date of measurement		Discharge (ft^3/s)	Specific gravity	Temperature (°C)
Oct. 15, 1986	(a)	5,900	1.039	13.0
	(b)	723	1.128	14.0
Dec. 2	(a)	5,67[illegible]	1.042	5.0
	(b)	745	1.128	6.5
Jan. 13, 1987	(a)	5,180	1.040	.0
	(b)	1,010	1.130	1.5
Mar. 3	(a)	5,240	1.037	5.0
	(b)	1,280	1.124	4.5
Apr. 7	(a)	5,340	1.041	12.5
	(b)	1,270	1.120	9.5
May 5	(a)	3,940	1.039	18.5
	(b)	1,600	1.115	19.0
19	(a)	5,200	1.039	20.5
	(b)	1,100	1.119	19.0
June 2	(a)	5,030	1.040	18.5
	(b)	1,160	1.115	19.0
30	(a)	5,070	1.041	26.0
	(b)	876	1.115	25.0
Aug. 11	(a)	3,290	1.042	27.0
	(b)	1,260	1.116	27.0
Sep. 22	(a)	5,040	1.046	21.0
	(b)	276	1.117	22.0

(a) indicates flow from south to north
(b) indicates flow from north to south



Station numbers have been abbreviated by omitting the first two digits of the part number (09, 10) and the last one or two digits if they are zero

114°
113°
112°
111°
110°
109°
43°
42°
41°
40°
39°
38°
37°
IDAHO
WYOMING
13
10
9
CASSIA
POWER
BANNOCK
CARIBOU
ONEIDA
FRANKLIN
BEAR LAKE
BOX ELDER
CACHE
RICH
WEBER
MORGAN
DAVIS
SUMMIT
DAGGETT
UINTA
SALT LAKE
TOOELE
WASATCH
DUCHESNE
UINTAH
UTAH
JUAB
CARBON
SANPETE
MILLARD
EMERY
GRAND
SEVIER
BEAVER
PIUTE
WAYNE
IRON
GARFIELD
SAN JUAN
WASHINGTON
KANE
American Falls Reservoir
American Falls
Pocatello
Snake River
Burley
Soda Springs
Malad City
Preston
Paris
Bear Lake
Kemmerer
Randolph
Brigham City
Green River
Evanston
FLAMING GORGE RESERVOIR
Ogden
Morgan
Farmington
Coalville
Salt Lake City
Tooele
Heber
Vernal
Duchesne
Provo
Utah Lake
Nephi
Price
Castle Dale
Sevier Lake
Fillmore
Richfield
Moab
Loa
Beaver
Junction
Fremont
Parowan
Panguitch
Monticello
Kanab
St George
GREAT SALT LAKE
Green River
Colorado River
San Rafael River
Muddy Creek
Dirty Devil River
Escalante River
LAKE POWELL
San Juan River
0 20 40 60 MILES
0 20 40 60 KILOMETERS

Figure 15.—Map showing location of sites in Utah where data were obtained on the specific conductance and temperature of surface water.

BEST COPY AVAILABLE

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
COLORADO RIVER BASIN TRIBUTARIES BETWEEN DOLORES RIVER AND GREEN RIVER 09183000 COURTHOUSE WASH NEAR MOAB, UT (Lat 38°36'46", Long 109°34'45")									
OCT , 1986					MAY , 1987				
14...	1450	.16	19.0	840	19...	0850	.13	13.5	870
NOV					JUN				
25...	0950	.42	2.5	830	25...	0940	.07	17.0	820
JAN , 1987					AUG				
06...	0945	1.2	2.5	670	11...	1010	.40	22.5	820
FEB					SEP				
27...	0915	4.4	2.0	440	16...	0940	.10	14.0	860
APR									
01...	0945	.80	8.0	720					
09184000 MILL CREEK NEAR MOAB, UT (Lat 38°33'44", Long 109°30'48")									
OCT , 1986					MAY , 1987				
14...	1110	6.7	6.0	250	19...	1040	35	12.0	160
NOV					JUN				
25...	1300	14	4.5	230	25...	1200	20	21.5	200
JAN , 1987					AUG				
06...	1220	5.7	4.5	230	11...	1220	11	22.5	230
FEB					SEP				
27...	1145	8.8	3.0	250	16...	1140	9.2	16.0	240
APR									
01...	1215	6.7	12.5	240					
09187550 INDIAN CREEK BELOW BOGUS POCKET, NEAR MONTICELLO, UT (Lat 38°09'06", Long 109°37'30")									
OCT , 1986					APR , 1987				
07...	1015	3.3	11.0	1000	15...	1035	53	9.0	510
NOV					MAY				
07...	0945	6.7	4.0	590	27...	1005	47	12.5	480
DEC					JUL				
12...	1005	2.3	.0	770	08...	1010	1.0	22.0	440
JAN , 1987					AUG				
27...	1000	6.4	.0	820	18...	1030	.41	24.0	520
MAR					SEP				
03...	1350	6.6	12.5	800	02...	1055	.57	23.5	1000
GREEN RIVER BASIN 09235100 CROUSE CREEK NEAR VERNAL, UT (Lat 40°47'43", Long 109°05'26")									
OCT , 1986					JUN , 1987				
27...	1340	1.4	14.0	305	15...	2030	1.2	17.5	315
DEC					JUL				
10...	1215	1.0	.0	440	01...	1700	1.2	16.0	325
MAR , 1987					30...	1400	1.2	17.0	300
25...	1145	2.0	.5	--	AUG				
APR					27...	1650	.95	18.5	290
23...	1315	3.3	13.5	430					
MAY									
13...	1900	1.3	17.5	340					
09235600 POT CREEK ABOVE DIVERSIONS, NEAR VERNAL, UT (Lat 40°46'05", Long 109°19'06")									
OCT , 1986					JUN , 1987				
27...	1655	2.4	8.5	270	15...	1835	1.0	19.5	205
DEC					JUL				
10...	1450	1.2	.0	280	01...	1445	.91	15.0	215
APR , 1987					30...	1135	.34	17.5	245
23...	1015	23	5.0	175	AUG				
29...	1420	38	13.5	--	19...	1000	.26	22.0	--
MAY									
13...	1515	12	13.0	135					
09261700 BIG BRUSH CREEK ABOVE RED FLEET RESERVOIR, NEAR VERNAL, UT (Lat 40°35'20", Long 109°27'53")									
OCT , 1986					APR , 1987				
27...	1755	38	8.0	265	22...	1545	62	10.5	210
DEC					MAY				
10...	1050	23	2.5	--	26...	1845	153	7.5	125
JAN , 1987					JUL				
21...	1550	22	3.0	--	02...	0910	73	11.5	190
FEB					30...	0940	36	12.0	270
25...	0920	19	1.0	--	AUG				
MAR					27...	1000	41	9.5	260
18...	1430	19	6.5	460					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREEN RIVER BASIN--Continued

09256500 ASHLEY CREEK NEAR VERNAL, UT (Lat 40°34'39", Long 109°37'17")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
10...	1000	104	7.0	120	24...	1030	100	5.5	135
NOV					MAY				
21...	0850	71	5.5	140	15...	1220	560	22.0	<50
JAN , 1987					JUN				
23...	1730	32	6.5	180	29...	1815	130	10.5	100
FEB					JUL				
23...	1725	36	3.5	200	16...	1715	104	10.5	120
MAR					AUG				
23...	1855	25	2.5	--	20...	1000	115	10.0	115

09267500 MOSBY CANAL NEAR LAPOINT, UT (Lat 40°36'30", Long 109°53'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
MAY , 1986					JUL , 1987				
12...	--	15	5.0	<50	22...	--	16	13.0	--
JUN , 1987					AUG				
11...	--	28	--	--	25...	0920	15	7.5	<50

09268500 NORTH FORK OF DRY FORK NEAR DRY FORK, UT (Lat 40°38'34", Long 109°48'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
09...	1400	6.7	5.0	<50	30...	0935	18	2.0	<50
NOV					JUN				
20...	0925	3.4	.5	<50	12...	--	18	5.5	--
JAN , 1987					JUL				
08...	1455	1.7	.0	--	23...	--	4.9	7.0	<50
MAR					AUG				
17...	--	.67	--	--	27...	1350	5.2	7.0	<50

09268900 BROWNIE CANYON ABOVE SINKS, NEAR DRY FORK, UT
(Lat 40°39'34", Long 109°45'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
09...	1035	13	1.0	<50	30...	--	68	2.0	<50
NOV					JUN				
20...	1310	6.3	.5	<50	12...	--	42	--	--
JAN , 1987					JUL				
08...	1050	2.8	.0	--	23...	--	16	--	--
MAR					AUG				
17...	1345	1.9	.0	--	27...	0930	13	4.5	<50

09270500 DRY FORK AT MOUTH, NEAR DRY FORK, UT (Lat 40°31'35", Long 109°36'18")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
08...	1635	3.8	16.0	690	29...	--	15	--	500
NOV					JUN				
19...	1440	3.6	6.0	670	11...	--	114	--	--
JAN , 1987					JUL				
07...	1530	3.3	.0	--	23...	--	19	23.0	360
MAR					AUG				
11...	1800	4.1	3.5	760	27...	1600	5.9	20.5	590

09275500 WEST FORK DUCHESNE RIVER NEAR HANNA, UT (Lat 40°27'01", Long 110°53'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
08...	1730	29	10.5	495	28...	1110	57	6.0	340
NOV					JUN				
20...	1340	21	3.0	485	09...	1010	42	9.0	385
JAN , 1987					JUL				
07...	1540	15	.0	485	14...	1610	19	21.5	395
MAR					AUG				
11...	1150	15	2.0	490	26...	1630	17	17.5	435

09277500 DUCHESNE RIVER NEAR TABIONA, UT (Lat 40°08'01", Long 110°36'06")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
08...	1210	162	10.0	520	28...	1340	239	11.0	365
NOV					JUN				
20...	1705	146	5.5	460	09...	1415	242	13.5	360
JAN , 1987					JUL				
06...	1720	113	3.0	485	14...	1300	104	16.0	540
MAR					AUG				
11...	1545	116	6.5	470	26...	1250	112	14.0	500
APR									
28...	1500	195	13.0	330					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREEN RIVER BASIN--Continued

09278000 SOUTH FORK ROCK CREEK NEAR HANNA, UT (Lat 40°32'54", Long 110°41'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
06...	1145	11	2.0	195	27...	1315	14	5.0	--
NOV					JUN				
17...	1630	8.2	1.0	190	09...	0845	56	4.5	130
JAN , 1987					JUL				
05...	1640	4.0	.0	--	20...	--	17	--	--
MAR					AUG				
10...	1600	2.3	.0	650	24...	1915	10	8.5	205

09278500 ROCK CREEK NEAR HANNA, UT (Lat 40°32'44", Long 110°39'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
06...	1330	63	5.5	61	27...	--	180	--	--
NOV					JUN				
17...	1440	55	2.0	55	09...	--	820	8.0	32
JAN , 1987					JUL				
05...	1310	36	.0	--	20...	--	120	--	--
MAR					AUG				
10...	1405	33	1.0	63	24...	1645	127	12.0	50

09279000 ROCK CREEK NEAR MOUNTAIN HOME, UT (Lat 40°29'36", Long 110°34'39")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
06...	1745	98	9.0	115	01...	1100	309	6.0	61
NOV					JUN				
17...	1150	81	2.0	125	08...	1730	897	13.5	<50
JAN , 1987					JUL				
05...	1250	51	.0	--	20...	1200	167	11.0	91
MAR					AUG				
10...	1145	57	2.0	190	24...	1600	156	12.0	90

09279100 ROCK CREEK NEAR TALMAGE, UT (Lat 40°18'40", Long 110°29'36")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1540	123	11.5	370	28...	1835	225	11.0	140
NOV					JUN				
19...	1625	90	.5	240	09...	1720	744	11.0	61
JAN , 1987					JUL				
06...	1300	56	.0	285	14...	1940	144	19.5	135
MAR					AUG				
12...	1220	46	3.5	340	27...	0950	129	10.5	155

09279150 DUCHESNE RIVER ABOVE KNIGHT DIVERSION, NEAR DUCHESNE, UT (Lat 40°16'14", Long 110°26'31")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
07...	1830	309	12.0	420	28...	1740	569	11.0	220
NOV					JUN				
18...	1600	257	4.5	395	10...	1015	953	10.0	160
JAN , 1987					JUL				
06...	1520	184	1.5	430	15...	1000	226	15.0	335
MAR					AUG				
11...	1830	169	6.0	440	26...	1020	248	12.0	370
APR									
29...	1710	378	15.5	230					

09285000 STRAWBERRY RIVER NEAR SOLDIER SPRINGS, UT (Lat 40°08'00", Long 111°01'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
10...	0900	15	7.0	390	27...	1420	26	4.5	355
NOV					JUN				
17...	1325	16	6.0	350	08...	1340	23	5.5	345
JAN , 1987					JUL				
05...	1400	13	4.0	350	13...	1150	28	6.0	345
MAR					AUG				
13...	1715	15	4.0	355	24...	1310	29	6.5	345

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREEN RIVER BASIN--Continued

09286100 RED CREEK ABOVE RESERVOIR NEAR FRUITLAND, UT
(Lat 40°19'46", Long 110°51'43")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
30...	1240	4.0	4.5	590	30...	1140	16	8.5	400
NOV					JUN				
21...	1230	5.9	.0	580	11...	1320	6.7	17.5	465
JAN, 1987					JUL				
08...	1120	3.0	.0	640	16...	1115	1.7	16.5	485
MAR					AUG				
10...	1650	4.9	.0	510	27...	1320	1.8	14.5	520

09286700 CURRANT CREEK BELOW CURRANT CREEK DAM NEAR FRUITLAND, UT
(Lat 40°19'51", Long 111°02'56")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
06...	1240	9.2	12.5	405	27...	1640	22	4.5	390
NOV					JUN				
17...	1615	7.4	5.5	330	08...	1740	23	8.0	310
JAN , 1987					JUL				
05...	1640	7.5	3.0	335	13...	1500	13	11.0	285
FEB					AUG				
17...	1315	8.2	4.5	380	24...	1535	9.7	10.5	320
MAR									
10...	1200	8.0	5.0	390					

09288000 CURRANT CREEK NEAR FRUITLAND, UT (Lat 40°12'01", Long 110°54'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
09...	1345	47	9.5	540	27...	1850	55	13.5	435
NOV					JUN				
21...	1610	44	6.5	570	11...	1645	52	19.0	445
JAN , 1987					JUL				
08...	1340	32	.5	580	13...	1810	36	20.0	430
FEB					AUG				
17...	1540	46	3.0	460	24...	1730	28	17.0	460
MAR									
10...	1400	43	6.5	480					

09288180 STRAWBERRY RIVER NEAR DUCHESNE, UT (Lat 40°09'17", Long 110°33'15")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
06...	1645	134	13.0	420	29...	1900	196	14.0	650
NOV					JUN				
19...	1205	121	6.0	730	11...	0945	172	13.5	760
JAN , 1987					JUL				
07...	1130	107	.0	750	14...	0950	104	15.0	830
FEB					AUG				
17...	1830	107	3.0	800	25...	0940	126	13.5	880
MAR									
13...	1325	120	7.0	800					

09289500 LAKE FORK RIVER ABOVE MOON LAKE, NEAR MOUNTAIN HOME, UT
(Lat 40°36'24", Long 110°31'35")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1415	62	6.0	--	28...	1145	108	3.0	350
NOV					JUN				
18...	1400	44	2.0	<50	10...	--	483	6.0	--
JAN , 1987					JUL				
06...	1315	28	.0	--	21...	1200	210	8.0	<50
MAR					AUG				
18...	1425	22	.0	--	26...	1240	99	8.0	<50

09291000 LAKE FORK RIVER BELOW MOON LAKE, NEAR MOUNTAIN HOME, UT
(Lat 40°33'23", Long 110°29'02")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					JUL , 1987				
07...	1315	13	7.0	<50	21...	--	321	9.0	<50
MAY , 1987					AUG				
11...	--	312	6.0	310	26...	1730	326	12.0	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREEN RIVER BASIN--Continued

09292500 YELLOWSTONE RIVER NEAR ALTONAH, UT (Lat 40°30'43", Long 110°20'27")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
07...	0805	118	3.0	72	28...	--	112	8.0	82
NOV					JUN				
18...	0855	84	1.0	89	09...	--	626	9.0	<50
JAN , 1987					JUL				
06...	0955	62	.0	--	22...	1035	210	9.0	55
MAR					AUG				
11...	0825	53	.5	120	25...	1740	198	11.5	53

09295000 DUCHESNE RIVER AT MYTON, UT (Lat 40°12'01", Long 110°03'47")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
09...	1825	436	14.0	860	29...	1040	143	14.0	900
NOV					JUN				
18...	1040	487	4.5	720	10...	1520	1230	17.0	360
JAN , 1987					JUL				
06...	0940	285	.0	810	15...	1220	91	22.5	1140
MAR					AUG				
12...	1530	339	8.0	800	25...	1620	327	16.0	1060

09299500 WHITEROCKS RIVER NEAR WHITEROCKS, UT (Lat 40°35'13", Long 109°55'37")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
08...	1055	91	4.5	<50	29...	1125	125	6.0	<50
NOV					JUN				
19...	1075	51	2.5	<50	11...	--	443	9.0	<50
JAN , 1987					JUL				
07...	1000	36	.0	--	22...	1600	211	15.0	<50
MAR					AUG				
11...	1430	30	1.0	55	25...	1410	143	11.5	<50

09306800 BITTER CREEK NEAR BONANZA, UT (Lat 39°45'12", Long 109°21'15")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					JUN , 1987				
29...	1230	14	7.0	4720	16...	1710	23	22.0	2750
DEC					JUL				
03...	1135	13	.0	2850	15...	1745	14	23.0	2750
JAN , 1987					28...	1745	15	23.5	2740
22...	1210	7.0	.0	3790	AUG				
MAR					20...	--	10	--	--
19...	1600	24	2.5	2740	SEP				
APR					09...	1515	14	17.5	2890
30...	1730	30	15.5	--					
MAY									
14...	1635	35	15.5	2420					

09308500 MINNIE MAUD CREEK NEAR MYTON, UT (Lat 39°47'55", Long 110°33'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1936					MAY , 1987				
10...	1020	5.2	5.0	910	07...	1105	15	5.5	600
NOV					JUN				
17...	1040	4.8	.0	890	01...	1100	7.5	12.0	620
JAN , 1987					JUL				
05...	1130	1.1	.0	860	16...	1030	2.5	14.5	630
MAR					AUG				
06...	1000	1.5	.0	790	27...	0950	1.6	11.0	779
APR									
09...	1020	18	.5	450					

09309600 FAIRVIEW TUNNEL NEAR FAIRVIEW, UT (Lat 39°40'03", Long 111°18'41")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1936					JUL , 1987				
08...	--	.00	--	--	09...	1210	17	16.0	250
MAR , 1987					AUG				
31...	--	.00	--	--	13...	1155	12	16.5	170
MAY					25...	1455	9.2	16.0	390
06...	--	.00	--	--					
JUN									
12...	0855	3.3	6.5	405					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREEN RIVER BASIN--Continued

09310000 GOOSEBERRY CREEK NEAR SCOFIELD, UT (Lat 39°42'57", Long 111°17'58")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUN , 1987				
08...	1540	8.5	10.5	150	12...	1005	16	15.5	355
NOV					JUL				
18...	1415	6.1	3.5	150	15...	1750	7.0	22.0	200
MAR , 1987					AUG				
31...	1700	4.2	.0	420	25...	1600	4.4	16.0	180
MAY									
06...	1500	68	9.0	360					

09310500 FISH CREEK ABOVE RESERVOIR, NEAR SCOFIELD, UT (Lat 39°46'28", Long 111°11'25")

OCT , 1986					MAY , 1987				
03...	0940	20	5.0	300	06...	1045	149	7.0	330
NOV					JUN				
17...	1455	18	1.0	360	02...	1110	48	9.5	400
DEC					JUL				
23...	1250	12	.0	440	15...	1900	14	22.0	320
MAR , 1987					AUG				
31...	1630	14	.0	430	25...	1310	13	15.0	250

09312600 WHITE RIVER BELOW TABBYUNE CREEK, NEAR SOLDIER SUMMIT, UT (Lat 39°52'33", Long 111°02'12')

OCT , 1986					MAY , 1987				
09...	1230	8.5	10.0	570	04...	1300	56	9.0	520
NOV					JUN				
18...	0950	2.7	.0	590	02...	0950	21	8.5	500
JAN , 1987					18...	1250	16	14.5	500
07...	1250	6.1	.0	600	JUL				
MAR					13...	1245	8.0	17.0	450
05...	1450	16	.0	440	AUG				
APR					25...	1135	6.8	16.0	490
06...	1325	28	4.0	450					

09312700 BEAVER CREEK NEAR SOLDIER SUMMIT, UT (Lat 39°49'50", Long 110°58'07")

OCT , 1986					MAY , 1987				
09...	1330	2.7	11.0	410	04...	1515	14	14.0	340
NOV					JUN				
18...	0845	1.1	.0	360	02...	1325	7.6	15.5	380
JAN , 1987					17...	1410	6.9	20.0	650
05...	1445	.88	.0	460	JUL				
MAR					13...	1345	3.1	21.0	430
02...	1435	1.2	.0	410	AUG				
05...	1340	3.1	.0	435	25...	0855	1.8	12.5	390
APR									
06...	1525	11	6.0	200					

09312800 WILLOW CREEK NEAR CASTLE GATE, UT (Lat 39°46'37", Long 110°47'30")

OCT , 1986					MAY , 1987				
09...	1450	4.4	12.5	990	07...	0800	20	5.5	590
NOV					JUN				
17...	1315	7.4	.0	990	01...	1330	13	16.0	600
JAN , 1987					19...	0910	8.9	19.0	590
08...	0910	2.1	.0	990	JUL				
MAR					13...	1600	3.8	22.0	700
05...	0935	5.3	.0	880	AUG				
APR					26...	1645	2.2	23.0	500
08...	1635	202	7.0	300					

09319000 EPHRAIM TUNNEL NEAR EPHRAIM, UT (Lat 39°19'47", Long 111°25'51")

OCT , 1986					JUL , 1987				
09...	--	.00	--	--	14...	1430	.62	17.5	330
JUN , 1987					AUG				
11...	1120	7.9	9.5	280	26...	1045	.08	8.0	230

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREEN RIVER BASIN--Continued

09323000 SPRING CITY TUNNEL NEAR SPRING CITY, UT (Lat 39°25'34", Long 111°21'51")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUL , 1987				
09...	1700	1.3	4.0	340	14...	1050	2.6	6.0	410
MAR , 1987					AUG				
31...	1200	.00	--	--	26...	1300	1.4	8.0	380
JUN									
10...	1350	16	10.0	270					

09326500 FERRON CREEK (UPPER STATION) NEAR FERRON, UT
(Lat 39°06'15", Long 111°12'47")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
09...	1330	22	10.0	520	14...	1110	276	6.5	340
DEC					JUN				
05...	1020	16	.0	510	03...	0825	149	6.5	370
JAN , 1987					JUL				
15...	0930	9.4	.0	620	16...	1110	32	15.5	450
MAR					AUG				
05...	1000	11	.5	550	27...	1015	18	10.0	440
APR									
08...	1300	25	7.0	410					

DIRTY DEVIL RIVER BASIN

09329050 SEVEN MILE CREEK NEAR FISH LAKE, UT (Lat 38°37'40", Long 111°38'50")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUN , 1987				
07...	1035	16	2.0	140	09...	1015	20	8.0	125
DEC					JUL				
03...	1140	10	.0	125	14...	1035	8.4	9.5	135
MAR , 1987					AUG				
31...	1030	7.3	.0	160	25...	1100	9.0	9.5	135
MAY									
12...	1240	54	5.5	100					

09330000 FREMONT RIVER NEAR BICKNELL, UT (Lat 38°18'25", Long 111°31'03")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
14...	1505	110	12.0	620	12...	0925	90	9.0	520
DEC					JUN				
03...	0850	95	.0	500	09...	0820	91	15.5	500
JAN , 1987					JUL				
13...	0850	102	.0	425	14...	0750	68	10.5	460
MAR					AUG				
03...	1010	133	.0	440	25...	0820	84	10.5	490
APR									
01...	1535	126	15.0	520					

09330230 FREMONT RIVER NEAR CAINEVILLE, UT (Lat 38°16'40", Long 111°04'00")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
14...	1620	98	12.5	800	11...	1700	50	20.0	630
DEC					JUN				
02...	1515	106	3.5	540	08...	1410	95	22.0	650
JAN, 1987					JUL				
12...	1500	109	.0	510	13...	1710	47	27.5	760
MAR					AUG				
02...	1500	150	7.5	480	24...	1430	89	20.5	670
APR									
02...	0750	128	4.5	540					

09330500 MUDDY CREEK NEAR EMERY, UT (Lat 38°58'55", Long 111°14'55")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
09...	1205	20	7.5	450	14...	0950	74	7.5	360
NOV					JUN				
20...	1005	17	.5	420	03...	1005	59	7.0	400
JAN , 1987					JUL				
15...	1140	13	.0	495	16...	0930	34	12.5	375
MAR					AUG				
05...	1135	24	.5	490	27...	0825	21	14.5	370
APR									
08...	1055	35	3.5	300					

DIRTY DEVIL RIVER BASIN--Continued

09333500 DIRTY DEVIL RIVER ABOVE POISON SPRING WASH, NEAR HANKSVILLE, UT
(Lat 38°05'39", Long 110°24'24")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
NOV , 1986					MAY , 1987				
13...	1140	139	6.5	1280	11...	1145	48	19.0	1650
DEC					JUN				
02...	1125	130	1.5	1330	01...	1205	99	20.5	2210
JAN , 1987					JUL				
12...	1000	48	.0	1590	13...	1100	.00	--	--
MAR					SEP				
02...	1000	214	3.5	1080	09...	1105	51	20.0	1860
26...	1425	156	11.0	1460					

ESCALANTE RIVER BASIN

09337000 PINE CREEK NEAR ESCALANTE, UT (Lat 37°51'45", Long 111°38'07")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
15...	1145	3.7	5.0	385	05...	1235	26	7.0	175
DEC					JUN				
03...	1215	2.9	.5	455	24...	1245	7.5	15.0	325
JAN , 1987					AUG				
27...	1320	2.9	.5	400	05...	1150	5.8	16.0	--
APR					SEP				
17...	1215	20	--	235	11...	--	5.5	--	310

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT (Lat 37°46'41", Long 111°34'26")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
15...	1025	5.3	4.0	1140	05...	1045	38	8.5	310
DEC					JUN				
03...	1055	3.8	.5	1640	24...	1125	1.4	22.0	--
JAN , 1987					AUG				
27...	1150	12	1.0	790	05...	1000	1.6	17.0	2120
MAR					SEP				
25...	1315	11	12.0	1010	11...	1020	1.9	16.0	2050
APR									
17...	1110	42	9.0	435					

SAN JUAN RIVER BASIN

09378170 SOUTH CREEK ABOVE RESERVOIR NEAR MONTICELLO, UT
(Lat 37°50'48", Long 109°22'08")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1510	.19	7.0	310	15...	0900	10	1.5	300
NOV					MAY				
05...	1200	1.2	5.5	295	27...	1415	6.2	10.0	250
DEC					JUL				
11...	1330	.20	.0	310	07...	0910	.62	8.0	320
JAN , 1987					AUG				
26...	1520	.27	.0	320	17...	1415	.26	15.0	310
MAR					SEP				
03...	1105	1.1	.5	330	01...	1340	.26	17.0	390

09378200 MONTEZUMA CREEK AT GOLF COURSE, AT MONTICELLO, UT
(Lat 37°51'38", Long 109°20'30")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
02...	1600	.22	10.0	570	14...	1455	2.7	11.0	620
NOV					MAY				
06...	1135	14	4.0	450	27...	1240	3.2	7.0	400
DEC					JUL				
11...	1145	.74	.0	610	08...	0830	.66	16.0	440
JAN , 1987					AUG				
26...	1330	.29	.0	600	17...	1340	.08	19.0	400
MAR					SEP				
02...	1450	.85	.5	570	01...	1310	.20	18.5	1790

09378630 RECAPTURE CREEK NEAR BLANDING, UT (Lat 37°45'20", Long 109°28'33")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
02...	1440	.03	11.0	220	27...	1630	1.5	9.0	200
NOV					JUL				
05...	0945	.25	3.0	180	07...	1335	.04	22.0	120
DEC					AUG				
10...	1040	.01	.0	120	17...	1035	.01	13.5	190
APR , 1987					SEP				
14...	1040	4.3	3.0	180	01...	1120	.02	15.5	240

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

SAN JUAN RIVER BASIN--Continued

09378650 RECAPTURE CREEK BELOW JOHNSON CREEK, NEAR BLANDING, UT (Lat 37°40'51", Long 109°27'43")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
02...	1300	.04	17.0	210	14...	1150	18	8.5	240
NOV					MAY				
05...	1115	.89	6.5	220	28...	1300	14	15.0	240
DEC					JUL				
10...	1230	.86	.0	220	07...	1450	.10	26.0	280
JAN , 1987					AUG				
26...	1200	.06	.0	200	17...	1135	.00	--	--
MAR					SEP				
03...	0900	1.3	.5	240	01...	1135	.00	--	--

09378700 COTTONWOOD WASH NEAR BLANDING, UT (Lat 37°33'38", Long 109°34'41")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
02...	1105	3.9	13.0	540	28...	1115	9.0	15.0	330
NOV					JUN				
06...	1020	4.9	4.5	540	04...	1215	4.7	25.0	520
14...	1250	3.9	5.5	500	JUL				
DEC					07...	1220	.00	--	--
11...	0935	3.0	.0	520	AUG				
JAN , 1987					17...	1215	.00	--	--
26...	1030	3.6	.0	570	SEP				
MAR					01...	0845	.00	--	--
02...	1240	5.3	7.0	600					
APR									
09...	1310	27	14.0	570					

KANAB CREEK BASIN

09403600 KANAB CREEK NEAR KANAB, UT (Lat 37°06'02", Long 112°32'50")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
03...	1340	14	15.0	830	28...	1315	8.7	25.0	490
NOV					JUN				
12...	1205	10	14.0	580	10...	1140	8.8	22.0	480
DEC					JUL				
18...	1235	9.9	8.0	560	20...	1400	10	12.0	470
FEB , 1987					AUG				
06...	1210	13	5.0	--	28...	1240	8.5	27.0	550
MAR									
24...	1040	17	3.0	940					

VIRGIN RIVER BASIN

09404450 EAST FORK VIRGIN RIVER NEAR GLENDALE, UT (Lat 37°20'19", Long 112°36'13")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
03...	1120	19	9.0	550	28...	1030	12	12.0	510
NOV					JUN				
12...	1420	19	9.0	560	10...	1020	8.9	12.5	510
DEC					JUL				
18...	1045	18	4.0	550	20...	1230	10	12.0	490
FEB , 1987					AUG				
06...	1415	17	6.5	--	25...	1000	14	7.0	490
MAR									
23...	--	24	--	540					

09405200 DEEP CREEK NEAR CEDAR CITY, UT (Lat 37°31'18", Long 112°53'01")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
JUN , 1987					AUG , 1987				
09...	1250	2.5	13.0	--	11...	1010	1.5	13.0	445
JUL					SEP				
08...	1530	1.0	17.0	415	11...	0955	1.1	9.0	470

09405250 EAST FORK DEEP CREEK NEAR CEDAR CITY, UT (Lat 37°30'35", Long 112°52'58")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
JUN , 1987					AUG , 1987				
08...	--	3.7	--	--	11...	1120	.93	14.0	410
JUL					SEP				
08...	1650	.80	18.0	340	11...	1100	1.7	9.5	405

VIRGIN RIVER BASIN--Continued

09405500 NORTH FORK VIRGIN RIVER NEAR SPRINGDALE, UT (Lat 37°12'35", Long 112°58'40")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
16...	1310	47	10.5	760	01...	1655	247	10.5	410
NOV					JUN				
24...	1355	38	8.0	790	02...	1640	76	21.0	570
JAN , 1987					JUL				
08...	1520	46	4.0	810	24...	1130	40	16.5	750
MAR					AUG				
24...	1310	56	5.0	780	19...	1420	33	20.5	750

09405900 NORTH CREEK NEAR VIRGIN, UT (Lat 37°14'14", Long 113°09'01")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUN , 1987				
14...	1755	2.4	15.0	710	02...	1415	1.4	26.0	690
NOV					24...	1300	.43	27.5	820
24...	1005	5.2	5.0	800	JUL				
JAN , 1987					27...	1925	2.3	25.0	1000
08...	1220	4.1	3.0	770	AUG				
MAR					18...	--	.00	--	--
24...	1650	8.5	6.0	700	25...	1340	4.5	25.5	580
MAY									
01...	1710	5.2	25.0	610					

09406000 VIRGIN RIVER AT VIRGIN, UT (Lat 37°10'22", Long 113°10'48")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
14...	1355	127	13.0	810	30...	1450	365	14.0	410
NOV					JUN				
24...	1305	128	7.5	810	02...	1140	122	18.0	700
JAN , 1987					JUL				
08...	0925	120	1.5	790	24...	1550	89	28.5	1190
MAR					AUG				
24...	1530	161	12.0	770	18...	1350	69	26.0	810

09406150 LAVERKIN CREEK NEAR LAVERKIN, UT (Lat 37°12'17", Long 113°17'03")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
02...	1020	7.9	14.0	1220	11...	1150	6.7	21.0	980
NOV...					JUN				
20...	1105	6.2	10.0	1040	16...	1200	1.9	25.0	1200
JAN , 1987					JUL				
13...	1045	3.1	.5	1220	29...	--	2.9	--	--
MAR					AUG				
11...	0920	9.8	7.0	960	13...	1305	12.0	--	1150
APR					SEP				
13...	1215	13	12.0	900	23...	--	2.4	--	--

09407000 ASH CREEK ABOVE TOQUERVILLE, UT (Lat 37°16'00", Long 113°16'43")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT 1986					MAY , 1987				
02...	--	.10	--	--	07...	1050	6.8	16.0	350
NOV					JUN				
13...	--	.00	--	--	16...	1240	.01	28.0	255
DEC					JUL				
04...	--	.00	--	--	29...	--	.00	--	--
JAN , 1987					AUG				
13...	--	.00	--	--	27...	1020	.10	17.0	255
MAR					SEP				
11...	0900	4.7	6.0	580	18...	1030	.00	--	--
APR									
13...	1115	29	5.0	245					

09408000 LEEDS CREEK NEAR LEEDS, UT (Lat 37°16'03", Long 113°22'12")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
02...	1835	4.9	20.0	295	12...	1435	7.2	17.0	235
NOV					JUN				
17...	1030	3.7	5.0	320	16...	0935	8.0	11.0	230
JAN , 1987					JUL				
13...	1315	3.2	2.0	315	29...	1000	6.5	16.0	--
MAR					SEP				
11...	1335	3.7	12.0	305	09...	1020	3.8	13.0	265
APR									
14...	0920	7.2	6.0	260					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

VIRGIN RIVER BASIN--Continued

09408150 VIRGIN RIVER NEAR HURRICANE, UT (Lat 37°09'45", Long 113°23'42")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
15...	0940	151	12.0	2050	07...	1150	98	21.0	--
NOV					JUN				
20...	1235	164	11.0	1560	16...	1050	95	20.0	2650
JAN , 1987					JUL				
13...	1200	42	4.0	3450	14...	1445	67	26.0	--
MAR					SEP				
11...	1045	81	10.0	2510	09...	1415	79	22.0	2910
APR									
14...	1020	125	12.0	1740					

09408195 FORT PIERCE WASH NEAR ST. GEORGE, UT (Lat 37°00'03", Long 113°28'05")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					AFR , 1987				
02...	--	.30	--	--	30...	1100	.00	--	--
NOV					JUN				
13...	--	.00	--	--	01...	1130	.00	--	--
DEC					JUL				
30...	--	.00	--	--	14...	1150	.00	--	--
JAN , 1987					AUG				
12...	--	.00	--	--	10...	1125	.00	--	--
FEB					25...	1110	.00	--	--
27...	--	.00	--	--	SEP				
APR					23...	1100	.00	--	--
07...	1015	.00	--	--	30...	1140	.00	--	--

09408400 SANTA CLARA RIVER NEAR PINE VALLEY, UT (Lat 37°23'00", Long 113°28'57")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					APR , 1987				
01...	1610	3.3	9.5	110	15...	1200	16	7.0	84
NOV					MAY				
13...	1230	2.4	5.0	120	11...	1355	20	9.0	72
DEC					JUN				
12...	1215	2.1	.5	--	17...	--	6.9	--	89
JAN , 1987					JUL				
22...	1235	1.6	.0	125	17...	1305	6.7	15.0	96
MAR					AUG				
26...	1040	3.2	3.0	110	24...	1105	4.0	13.0	94

09408500 SANTA CLARA-PINTO DIVERSION NEAR PINTO, UT (Lat 37°28'04", Long 113°28'21")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
01...	--	.00	--	--	11...	1210	17	9.0	125
NOV					JUN				
13...	--	.00	--	--	11...	--	2.4	--	180
DEC					JUL				
12...	--	.00	--	--	02...	--	.00	--	--
APR , 1987					AUG				
10...	1140	20	5.0	125	24...	--	.00	--	--
15...	1055	27	6.0	97					

09409880 SANTA CLARA RIVER AT GUNLOCK, UT (Lat 37°16'55", Long 113°46'00")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
01...	1750	6.1	17.0	440	11...	1525	23	20.0	280
NOV					JUN				
13...	1315	16	13.0	480	16...	--	12	--	335
DEC					JUL				
12...	1315	17	8.0	470	22...	1245	7.8	17.0	370
JAN , 1987					AUG				
22...	1430	18	2.0	445	24...	1235	12	25.0	475
MAR									
26...	--	17	--	500					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

VIRGIN RIVER BASIN--Continued

09410100 SANTA CLARA RIVER BELOW WINDSOR DAM, NEAR SANTA CLARA, UT (Lat 37°11'24", Long 113°46'03")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
01...	--	.00	--	--	16...	1305	17	18.0	485
NOV					MAY				
13...	--	.00	--	--	11...	1735	15	19.0	480
DEC					JUN				
12...	--	e.10	--	--	16...	--	11	--	465
JAN , 1987					JUL				
22...	--	e.10	--	--	22...	1120	10	19.0	460
FEB					AUG				
27...	1025	.43	8.0	400	24...	1410	8.2	25.0	465
MAR									
26...	--	e.10	--	--					

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT (Lat 37°04'26", Long 113°34'56")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
02...	1630	6.5	20.0	2040	12...	1220	2.9	21.0	2170
NOV					JUN				
17...	1410	3.0	13.0	2080	01...	1405	3.0	24.0	2090
DEC					JUL				
30...	1135	5.6	4.0	--	14...	1310	4.7	24.0	1730
FEB , 1987					AUG				
12...	1140	4.0	13.0	2010	25...	0950	3.2	18.0	2170
APR									
07...	1150	2.8	16.5	1950					

09413200 VIRGIN RIVER NEAR BLOOMINGTON, UT (Lat 37°04'14", Long 113°34'55")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
15...	1240	172	16.0	2350	12...	1055	93	19.0	2250
NOV					JUN				
17...	1240	144	9.0	2310	01...	1305	116	22.0	2320
DEC					23...	1515	34	31.0	--
30...	1245	67	3.0	--	JUL				
FEB , 1987					29...	1305	46	27.0	--
12...	1220	99	13.0	2250	SEP				
APR					09...	1155	39	22.0	3650
07...	1250	135	18.0	2070					

BEAR RIVER BASIN

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE (Lat 40°57'55", Long 110°51'10")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
15...	1020	81	1.0	210	23...	1730	315	8.5	285
DEC					JUN				
02...	1400	83	.0	260	01...	1245	412	9.0	140
JAN , 1987					JUL				
21...	1610	71	.0	240	08...	1950	127	15.0	180
MAR					SEP				
10...	1540	70	1.5	250	04...	1130	106	13.0	160

10015700 SULPHER CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY (Lat 41°08'38", Long 110°48'19")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
10...	1035	7.0	14.0	650	24...	1045	72	7.0	400
DEC					JUN				
02...	1140	11	.0	800	01...	1420	17	15.0	580
JAN , 1987					JUL				
21...	1355	11	.0	590	08...	1710	.95	17.0	740
MAR					SEP				
10...	1230	29	.0	580	04...	1000	2.5	16.0	880

10015900 SULPHER CREEK BELOW RESERVOIR, NEAR EVANSTON, WY (Lat 41°09'21", Long 110°50'05")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUN , 1987				
10...	0920	35	6.5	600	01...	--	e.15	17.0	820
DEC					11...	1200	75	17.0	405
02...	1100	.00	--	--	JUL				
JAN , 1987					08...	1700	51	17.0	405
21...	1230	5.2	3.0	840	SEP				
MAR					04...	0840	112	14.0	295
10...	--	.00	--	--					
APR									
24...	0840	14	5.5	460					

e Estimated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

BEAR RIVER BASIN--Continued

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT
(Lat 41°28'04" Long 111°01'01")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
15...	1400	160	7.0	355	20...	1300	343	6.0	375
DEC					JUN				
03...	1130	134	.0	470	02...	0930	247	10.0	305
JAN , 1987					JUL				
22...	1310	65	.0	380	06...	1530	31	16.0	360
MAR					SEP				
25...	1040	84	3.0	650	10...	1900	43	15.0	475

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT
(Lat 41°30'20", Long 111°00'50")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUN , 1987				
15...	1555	64	5.0	380	02...	1040	285	12.5	335
DEC					JUL				
01...	1510	133	2.0	410	07...	1145	564	18.5	330
MAR , 1987					SEP				
11...	1600	208	3.0	420	03...	1745	43	18.0	455
APR									
20...	1600	386	6.5	465					

10023000 BIG CREEK NEAR RANDOLPH, UT (Lat 41°36'36", Long 111°15'12")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
DEC , 1986					JUN , 1987				
23...	--	24	--	--	02...	1400	18	17.0	385
JAN , 1987					JUL				
22...	1650	23	.0	--	06...	1230	15	16.0	400
MAR					AUG				
09...	1610	24	8.0	385	06...	--	14	--	--
APR					19...	1430	13	18.5	395
23...	1400	21	13.0	380	31...	1710	12	20.0	560

10026500 BEAR RIVER NEAR RANDOLPH, UT (Lat 41°48'02", Long 111°04'20")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
17...	1250	176	4.0	570	23...	1015	362	11.5	540
DEC					JUN				
03...	--	134	--	--	02...	1740	281	15.0	830
JAN , 1987					JUL				
20 ..	1620	95	.0	--	08...	1440	305	12.0	325
MAR					SEP				
09...	1815	339	8.0	480	03...	1420	70	16.0	920

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY
(Lat 41°56'20", Long 110°59'05")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					AUG , 1987				
17...	--	188	--	--	05...	1255	96	17.0	760
APR , 1987					19...	1320	113	17.0	740
22...	1710	324	14.0	500					

10032000 SMITHS FORK NEAR BORDER, WY (Lat 42°17'36", Long 110°52'18")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
16...	1045	113	6.0	410	22...	1530	153	8.5	365
DEC					JUN				
04...	1230	71	.0	445	03...	1255	276	15.0	320
JAN , 1987					JUL				
23...	1150	69	.0	425	07...	1550	150	15.5	320
MAR					SEP				
13...	1200	70	1.5	245	01...	1515	90	12.0	275

10038000 BEAR RIVER BELOW SMITHS FORK, NEAR COKEVILLE, WY
(Lat 42°07'36", Long 110°58'21")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
17...	1110	535	2.5	425	22...	1030	527	9.5	560
DEC					JUN				
04...	1100	320	.0	445	03...	1115	718	13.0	780
JAN , 1987					AUG				
23...	1330	250	.0	410	06...	1000	181	16.0	550
MAR					SEP				
25...	--	486	5.0	610	02...	1600	188	18.0	660

BEAR RIVER BASIN--Continued

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE (Lat 42°24'10", Long 111°01'30")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
17...	0800	33	1.0	520	21...	1700	45	13.5	230
DEC					JUN				
03...	1725	17	.0	180	02...	1935	44	16.0	960
JAN , 1987					JUL				
23...	1450	16	.0	235	07...	1800	23	18.0	740
MAR					SEP				
12...	1210	30	.0	270	02...	1425	13	15.0	850

10068500 BEAR [illegible]R AT PESCADERO, ID (Lat 42°24'06", Long 111°21'22")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					JUN , 1987				
08...	--	1840	--	--	03...	0835	246	13.0	790
DEC					JUL				
04...	0925	1890	1.0	--	08...	1105	1250	16.0	900
MAR , 1987					SEP				
12...	1620	265	8.0	--	02...	1240	408	17.0	780
APR									
21...	1500	155	10.5	620					

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE (Lat 42°00'47", Long 111°55'14")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
09...	1240	2530	11.0	680	29...	2000	995	12.5	1020
NOV					JUL				
24...	1715	2420	5.5	680	14...	1820	432	24.0	1020
MAR , 1987					AUG				
04...	1500	460	5.5	840	25...	1800	406	21.0	890
APR									
15...	1115	461	11.0	1280					

10099000 HIGH CREEK NEAR RICHMOND, UT (Lat 41°58'40, Long 111°44'40")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1215	13	7.0	295	15...	1210	20	9.0	265
NOV					MAY				
25...	1000	11	4.5	285	28...	0925	53	7.0	280
JAN , 1987					JUL				
14...	1310	7.4	.5	295	14...	1400	15	12.0	300
MAR					AUG				
03...	--	8.0	--	--	25...	1315	9.5	11.5	305

10104700 LITTLE BEAR RIVER BELOW DAVENPORT CREEK, NEAR AVON, UT
(Lat 41°30'45", Long 111°48'40")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
10...	1030	48	9.0	410	16...	1050	79	7.0	290
NOV					MAY				
26...	1500	41	6.0	405	27...	1210	115	9.0	260
JAN , 1987					JUL				
15...	1220	36	4.0	415	13...	1415	31	18.5	390
MAR					AUG				
02...	1210	36	6.5	390	24...	1125	26	14.0	325

10108400 LOGAN, HYDE PARK & SMITHFIELD CANAL AT HEAD, NEAR LOGAN, UT
(Lat 41°44'35", Long 111°45'40")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1430	.40	10.0	400	15...	1635	22	10.0	350
NOV					MAY				
25...	1120	.02	4.5	295	27...	1935	2.2	9.5	300
JAN , 1987					JUL				
13...	--	.00	--	--	14...	0900	40	[illegible]	350
MAR					AUG				
03...	1035	.08	4.0	350	25...	0845	30	11.5	355

10109000 LOGAN RIVER ABOVE STATE DAM, NEAR LOGAN, UT (Lat 41°44'40", Long 111°47'00")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1730	237	10.5	400	21...	--	216	--	--
NOV					MAY				
25...	1310	200	6.0	240	28...	1130	303	9.0	315
JAN , 1987					JUL				
14...	0945	154	3.0	370	14...	1030	133	12.0	400
MAR					AUG				
03...	1215	172	5.5	380	25...	1045	113	12.5	390

BEAR RIVER BASIN--Continued

10111700 BLACKSMITHS FORK BELOW MILL CREEK NEAR HYRUM, UT (Lat 41°35'40", Long 111°30'00")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
08...	1045	97	7.5	410	16...	1300	73	11.0	370
NOV					MAY				
25...	1540	88	8.0	460	27 ..	1440	67	10.5	390
JAN , 1987					JUL				
14...	1730	79	5.0	405	13...	1900	61	15.5	370
MAR					AUG				
02...	1515	68	9.5	390	24...	1535	59	11.0	370

10113500 BLACKSMITH FORK ABOVE UTAH POWER & LIGHT CO.'S DAM, NEAR HYRUM, UT (Lat 41°37'25", Long 111°45'48")

OCT , 1986					MAY , 1987				
08...	1255	174	9.0	415	27...	1640	138	10.5	390
NOV					JUL				
26...	0900	138	4.0	403	13...	1615	96	16.5	380
JAN , 1987					AUG				
15...	0900	120	2.5	405	05...	1115	98	18.0	350
MAR					13...	1500	87	13.0	400
03...	0930	110	6.5	375	24...	1720	97	18.0	360
APR					SEP				
16...	1505	161	12.0	340	30...	1115	88	9.5	395

WEBER RIVER BASIN

10128000 SMITH AND MOREHOUSE CREEK NEAR OAKLEY, UT (Lat 40°47'09", Long 111°06'42")

OCT , 1986					MAY , 1987				
02...	1315	26	6.5	235	13...	1600	209	7.0	59
30...	1135	27	6.0	140	29...	1500	94	8.0	90
NOV					JUN				
20...	1730	24	3.5	230	26...	1030	34	9.0	165
JAN , 1987					JUL				
13...	1450	15	2.0	310	29...	1230	20	12.0	240
MAR					AUG				
05...	1820	14	4.5	300	31...	1210	16	9.5	280
APR									
16...	1830	61	6.0	150					

10128500 WEBER RIVER NEAR OAKLEY, UT (Lat 40°44'22", Long 111°14'25")

OCT , 1986					MAY , 1987				
02...	1110	118	6.5	--	13...	1200	737	8.0	130
30...	1010	110	6.5	255	29...	1715	334	10.0	195
NOV					JUN				
26...	1530	85	1.0	300	26...	1300	164	14.5	230
JAN , 1987					JUL				
13...	1640	77	.5	320	29...	1145	100	13.5	260
FEB					AUG				
26...	1620	77	.0	--	31...	0955	69	9.0	320
MAR					SEP				
31...	1230	70	3.0	305	29...	1605	59	11.0	--
APR									
28...	1520	431	9.5	175					

10130500 WEBER RIVER NEAR COALVILLE, UT (Lat 40°53'43" Long 111°24'04")

OCT , 1986					MAY , 1987				
07...	1615	244	15.5	365	27...	0840	216	6.0	445
DEC					JUL				
08...	1225	227	3.5	380	08...	1540	186	15.0	425
JAN , 1987					AUG				
16...	1025	187	.0	400	17...	0800	204	10.5	370
MAR					SEP				
03...	1445	180	6.0	375	09...	1230	222	15.5	--
APR									
21...	1120	57	7.0	445					

10131000 CHALK CREEK AT COALVILLE, UT (Lat 40°55'11", Long 111°24'03")

OCT , 1986					APR , 1987				
07...	1415	56	11.0	670	21...	1310	109	7.0	590
DEC					MAY				
08...	1025	23	1.5	800	27...	1040	132	7.0	590
JAN , 1987					JUL				
15...	1645	28	.0	820	08...	1325	17	15.0	840
MAR					AUG				
03...	1550	38	2.0	800	17...	1000	34	12.0	680

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

WEBER RIVER BASIN--Continued

10134500 EAST CANYON CREEK NEAR MORGAN, UT (Lat 40°55'21", Long 111°36'23")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
08...	0910	62	10.0	500	27...	1310	16	7.5	590
DEC					JUL				
09..	1445	8.3	5.0	570	08...	1030	146	10.5	560
JAN , 1987					28...	0955	194	14.0	560
15...	1340	6.5	6.0	570	AUG				
MAR					17...	1455	61	8.5	540
04...	1035	7.4	7.5	590					
APR									
21...	1635	14	7.5	580					

10136500 WEBER RIVER AT GATEWAY, UT (Lat 41°08'13", Long 111°49'54")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
03...	1150	604	9.5	520	22...	1230	385	8.0	410
NOV					MAY				
07...	1105	226	4.5	610	22...	1045	416	10.0	520
DEC					JUN				
09...	1130	477	2.0	540	26...	1200	391	13.0	510
JAN , 1987					AUG				
15...	1050	333	.0	--	25...	1135	391	15.0	530
MAR									
04...	1400	339	5.0	600					

10137500 SOUTH FORK OGDEN RIVER NEAR HUNTSVILLE, UT (Lat 41°16'07", Long 111°40'24")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR ,1987				
07...	1325	71	10.5	360	24...	1435	110	12.0	245
DEC					MAY				
10...	1320	52	1.5	385	26...	1515	84	9.0	295
JAN , 1987					JUL				
14...	1545	58	1.0	365	07...	1210	89	14.0	310
MAR					AUG				
05...	1015	62	2.5	385	21...	1410	49	17.0	335

10139300 WHEELER CREEK NEAR HUNTSVILLE, UT (Lat 41°15'14", Long 111°50'32")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
07...	1045	1.2	6.5	480	22...	1205	28	9.0	230
DEC					JUL				
10...	1025	.56	1.0	500	07...	1415	2.8	15.5	355
JAN , 1987					AUG				
14...	1310	.69	.5	510	21...	1540	[illegible]	18.5	355
MAR					SEP				
05...	1200	1.6	6.0	520	21...	--	.02	--	--
APR									
24...	1255	12	9.5	290					

JORDAN RIVER BASIN

10146400 CURRANT CREEK NEAR MONA, UT (Lat 39°48'09", Long 111°51'44")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
10...	1910	36	14.0	1750	06...	1430	22	17.0	1700
NOV					JUN				
12...	1250	42	4.0	2000	18...	0830	13	16.0	1040
JAN , 1987					JUL				
01...	1145	41	2.0	2120	29...	1400	12	23.0	1050
FEB					SEP				
07...	1325	59	3.0	2200	14...	1140	12	14.0	1130
MAR									
25...	1625	40	11.0	2300					

10148200 TIE FORK NEAR SOLDIER SUMMIT, UT (Lat 39°57'00", Long 111°12'58")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
07...	1715	4.4	12.0	640	04...	1140	3.6	9.0	560
NOV					JUN				
18...	1055	4.9	3.0	740	02...	0830	2.4	5.5	580
JAN , 1987					JUL				
07...	1015	2.5	.0	690	13...	1125	2.7	12.0	590
MAR					AUG				
02...	1330	5.0	5.0	660	25...	1005	3.2	12.0	650
APR									
06...	1150	3.9	6.5	590					

JORDAN RIVER BASIN--Continued

10148510 SPANISH FORK BELOW HALLS FALLS NEAR SPANISH FORK, UT
(Lat 40°00'34", Long 111°29'34")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1500	92	13.0	720	14...	1135	88	7.0	670
NOV					MAY				
18...	1300	88	7.0	445	27...	1000	100	9.0	710
JAN , 1987					JUL				
21...	1130	72	.0	850	07...	1200	40	16.5	790
MAR					AUG				
03...	1000	78	2.0	820	12...	1330	42	20.0	740

10150500 SPANISH FORK AT CASTILLA, UT (Lat 40°02'59", Long 111°32'50")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
07...	1210	130	9.5	810	14...	1600	126	13.0	750
NOV					MAY				
18...	1515	127	6.5	930	27...	1230	165	10.0	790
JAN , 1987					JUL				
21...	1300	118	1.5	930	07...	1715	479	19.0	460
MAR					AUG				
03...	1230	117	6.0	950	12...	1420	442	20.0	460

10152000 SPANISH FORK NEAR LAKESHORE, UT (Lat 40°09'30", Long 111°43'50")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
06...	1110	170	10.5	820	06...	1440	4.9	20.0	1890
NOV					27...	1720	19	16.0	1190
19...	1110	161	7.5	940	JUL				
JAN , 1987					07...	1940	6.8	23.5	1100
15...	1130	173	.5	910	AUG				
MAR					14...	1130	4.6	17.5	1550
03...	1740	78	9.0	950					
APR									
14...	1650	37	16.0	870					

10153800 NORTH FORK PROVO RIVER NEAR KAMAS, UT (Lat 40°35'48", Long 111°05'48")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
02...	1530	16	5.0	52	16...	1410	36	5.5	155
NOV					MAY				
20...	1540	17	.5	<50	29...	1825	79	8.5	<50
JAN , 1987					JUL				
13...	1140	8.2	.0	56	09...	1910	16	15.5	<50
MAR					AUG				
05...	1515	6.5	.0	58	13...	0945	4.8	11.0	<50

10154200 PROVO RIVER NEAR WOODLAND, UT (Lat 40°33'28", Long 111°10'05")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
03...	0940	108	7.0	190	14...	1350	891	8.5	78
NOV					JUN				
20...	1230	78	4.0	260	03...	1230	492	10.0	95
26...	--	71	--	--	JUL				
JAN , 1987					09...	1640	129	16.5	160
14...	0930	62	1.0	225	AUG				
FEB					13...	1500	65	17.0	245
26...	1820	77	2.0	--					
APR									
16...	1250	194	6.0	130					

10155000 PROVO RIVER NEAR HAILSTONE, UT (Lat 40°36'03", Long 111°21'35")

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
03...	1200	153	7.5	220	14...	1625	1090	11.0	98
NOV					JUN				
20...	0900	116	1.0	235	03...	1630	481	15.0	110
MAR , 1987					JUL				
06...	1130	109	4.0	240	08...	1650	105	19.0	155
APR					AUG				
20...	--	351	--	--	13...	1540	47	21.5	225
MAY									
05...	1730	770	11.0	130					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
JORDAN RIVER BASIN--Continued									
10159500 PROVO RIVER BELOW DEER CREEK DAM, UT (Lat 40°24'12", Long 111°31'44")									
OCT , 1986					APR , 1987				
07...	1115	335	14.5	390	15...	1715	123	5.5	455
NOV					MAY				
24...	1700	352	8.0	690	28...	1520	593	13.0	330
JAN , 1987					JUL				
14...	1620	98	4.0	490	09...	1350	532	9.0	465
MAR					AUG				
04...	1735	116	4.0	500	11...	1215	336	13.0	425
10163000 PROVO RIVER AT PROVO, UT (Lat 40°14'16", Long 111°41'55")									
OCT , 1986					APR , 1987				
06...	1415	389	7.0	470	15...	1135	123	8.0	440
NOV					MAY				
19...	--	468	--	--	28...	1030	279	11.0	440
JAN , 1987					JUL				
21...	1545	149	2.0	450	08...	1215	14	18.0	455
MAR					AUG				
04...	1340	180	7.5	445	11...	1455	24	24.5	520
10164500 AMERICAN FORK ABOVE UPPER POWERPLANT, NEAR AMERICAN FORK, UT (Lat 40°26'52", Long 111°40'53")									
NOV , 1986					JUN , 1987				
24...	1115	32	3.5	700	03...	2015	71	10.0	385
JAN , 1987					JUL				
22...	1245	26	1.5	620	10...	0855	43	12.0	380
MAR					AUG				
06...	1440	26	8.0	400	11..	1715	26	15.5	560
APR									
15...	1850	40	9.0	440					
10166430 WEST CANYON NEAR CEDAR FORT, UT (Lat 40°24'24", Long 112°06'03")									
OCT , 1986					MAY , 1987				
07...	1005	3.8	8.0	--	05...	1120	9.6	13.0	520
NOV					JUN				
12...	1030	3.3	6.0	820	19...	1015	4.8	12.0	650
DEC					JUL				
31...	0955	1.5	.0	450	31...	0940	2.9	15.0	670
FEB , 1987					SEP				
10...	1730	1.7	5.5	700	16...	0930	1.5	10.0	740
MAR									
26...	0940	1.5	2.0	810					
10167000 JORDAN RIVER AT NARROWS, NEAR LEHI, UT (Lat 40°26'38", Long 111°55'17")									
NOV , 1986					MAY , 1987				
10...	1205	1190	6.0	1230	01...	1210	269	18.0	1140
DEC					JUN				
29...	1120	1210	1.0	1280	16...	1355	113	22.0	1220
FEB , 1987					JUL				
06...	1745	1170	5.0	1250	28...	1105	104	23.0	1280
MAR					SEP				
23...	1105	1160	7.0	1150	11...	0955	89	20.0	1420
APR									
14...	1000	114	16.0	1280					
10170500 SURPLUS CANAL AT SALT LAKE CITY, UT (Lat 40°43'37", Long 111°55'33")									
NOV , 1986					JUN , 1987				
10...	1555	1390	7.0	1300	16...	0820	283	17.0	1600
DEC					JUL				
29...	1605	1380	2.5	1360	27...	1215	308	21.0	1500
FEB , 1987					AUG				
15...	1520	1400	6.5	1300	04...	--	335	--	--
MAR					SEP				
26...	1805	1390	8.5	1350	17...	1515	296	18.0	1720
MAY									
04...	1310	666	13.0	1220					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

JORDAN RIVER BASIN--Continued

10171305 PARLEYS CREEK ABOVE ALEXANDER CREEK, NEAR SALT LAKE CITY, UT (Lat 40°44'55", Long 111°41'14")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
APR , 1987					JUL , 1987				
27...	1330	14	9.5	425	01...	1040	5.4	11.0	550
MAY					21...	0940	5.4	10.0	--
11...	--	10	--	--	22...	0655	6.0	9.5	--
26...	1655	9.5	8.0	510	AUG				
JUN					12...	--	2.5	--	--
10...	1000	9.0	9.0	520	SEP				
19...	--	7.8	--	--	02...	--	2.7	--	--

RUSH VALLEY

10172700 VERNON CREEK NEAR VERNON, UT (Lat 39°58'46", Long 112°22'46")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
06...	1730	6.9	12.5	5[illegible]	06...	1115	5.6	11.0	480
NOV					JUN				
04...	1115	7.2	8.0	530	17...	1800	4.7	17.0	510
DEC					JUL				
30...	1050	5.9	3.0	540	29...	1105	5.1	15.0	420
FEB , 1987					SEP				
16...	1200	5.7	4.5	510	16...	12[illegible]0	4.3	14.0	500
MAR									
25...	1335	5.9	9.0	500					

TOOELE VALLEY

10172765 CLOVER CREEK ABOVE BIG HOLLOW NEAR CLOVER, UT (Lat 40°19'58", Long 112°31'24")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
07...	1205	4.5	10.0	360	07...	1115	5.4	11.0	370
NOV					JUN				
14...	1545	3.4	9.0	360	19...	1230	3.8	14.0	350
DEC					JUL				
31...	1215	2.6	3.0	370	30...	1900	3.4	15.0	290
FEB , 1987					SEP				
09...	0835	2.3	3.0	300	18...	1015	2.2	7.0	370
MAR									
31...	1540	2.3	13.0	360					

10172795 BOX ELDER WASH NEAR GRANTSVILLE, UT (Lat 40°29'42", Long 112°31'52")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
NOV , 1986					MAY , 1987				
13...	1120	1.8	8.0	--	07...	1300	.84	16.0	530
JAN , 1987					JUN				
02...	1130	1.5	6.0	560	17...	1510	1.2	17.0	590
FEB					JUL				
28...	1045	1.1	5.0	530	30...	1120	1.0	15.0	350
MAR					SEP				
28...	1255	1.0	7.0	570	10...	1750	.77	15.0	580

10172800 SOUTH WILLOW CREEK NEAR GRANTSVILLE, UT (Lat 40°29'47", Long 112°34'25")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
07...	1705	5.3	8.0	360	07...	1520	14	11.0	220
NOV					JUN				
13...	1255	4.4	5.0	380	17...	1255	8.2	11.0	230
JAN , 1987					JUL				
02...	1440	3.5	4.0	370	30...	1315	3.7	12.0	340
FEB					SEP				
28...	1215	3.3	2.0	340	10...	1510	3.2	11.0	360
MAR									
31...	1350	3.4	6.0	360					

10172805 NORTH WILLOW CREEK NEAR GRANTSVILLE, UT (Lat 40°31'58", Long 112°34'19")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
07...	1535	4.4	11.0	325	07...	1715	12	10.0	220
NOV					JUN				
13...	1025	3.2	4.0	340	17...	1100	3.7	13.0	310
JAN , 1987					JUL				
02...	1305	2.5	4.0	360	30...	1550	2.3	14.5	330
FEB					SEP				
28...	0930	2.6	.0	360	10...	1325	1.8	14.5	370
MAR									
31...	1155	3.3	8.0	335					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

GREAT SALT LAKE DESERT

10172870 TROUT CREEK NEAR CALLAO, UT (Lat 39°44'39", Long 113°53'21")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
09...	1030	2.1	7.0	70	22...	1245	7.8	7.5	--
NOV					MAY				
18...	1330	2.2	4.0	68	12...	--	17	--	--
DEC					JUN				
31...	--	1.9	--	--	26...	--	5.3	--	--
MAR , 1987					AUG				
04...	1330	1.9	3.0	75	14...	1020	2.2	12.0	--

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

10172952 DUNN CREEK NEAR PARK VALLEY, UT (Lat 41°51'31", Long 113°19'35")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					APR , 1987				
08...	1640	2.6	14.0	215	21...	1715	4.4	12.5	155
NOV					MAY				
19...	1010	2.1	2.0	195	12...	1350	9.2	14.0	105
DEC					JUN				
30...	1650	1.7	2.0	170	25...	1550	6.7	19.0	150
MAR , 1987					AUG				
03...	0930	1.8	1.5	190	06...	1905	2.5	16.5	190
APR									
10...	1620	2.6	11.5	180					

SEVIER LAKE BASIN

10173450 MAMMOTH CREEK ABOVE WEST HATCH DITCH, NEAR HATCH, UT (Lat 37°37'19", Long 112°31'07")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
01...	1615	26	7.0	200	13...	1625	214	7.0	150
NOV					JUN				
21...	1425	22	4.0	205	26...	1625	44	15.0	190
DEC					AUG				
11...	1200	10	.0	230	03...	1355	29	15.5	210
JAN , 1987					SEP				
14...	1340	16	.0	215	17...	1150	19	9.5	220
APR									
02...	1220	18	6.5	190					

10180000 SEVIER RIVER NEAR CIRCLEVILLE, UT (Lat 38°06'15", Long 112°20'08")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
01...	1110	116	8.0	--	13...	0955	194	12.0	355
NOV					JUN				
03...	1005	136	4.0	485	02...	1050	127	13.0	415
DEC					JUL				
10...	1020	142	.5	480	13...	1045	64	15.0	460
JAN , 1987					AUG				
22...	1030	109	.5	--	19...	1005	76	14.0	500
MAR					SEP				
02...	--	130	--	405	14...	--	67	--	500
APR									
09...	1105	211	7.0	385					

10183500 SEVIER RIVER NEAR KINGSTON, UT (Lat 38°12'22", Long 112°12'25")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
01...	1200	90	10.0	590	04...	1210	57	12.0	470
NOV					JUN				
03...	1105	165	5.0	530	02...	1155	48	14.0	570
DEC					JUL				
10...	1120	151	.5	475	13...	1145	24	17.0	560
JAN , 1987					AUG				
22...	1110	116	.5	--	11...	1150	30	20.0	620
FEB					SEP				
27...	1050	182	4.0	455	01...	1125	30	14.5	610
APR									
09...	1215	218	7.0	420					

10183900 EAST FORK SEVIER RIVER NEAR RUBYS INN, UT (Lat 37°34'33", Long 112°15'54")

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (US/CM)
OCT , 1986					MAY , 1987				
15...	1330	15	8.0	490	01...	1135	37	7.0	470
NOV					JUN				
25...	1150	12	.5	500	10...	1105	12	15.0	415
JAN , 1987					AUG				
21...	1120	6.6	.5	520	04...	1155	7.8	17.0	425
APR					SEP				
08...	1135	31	2.0	430	03...	1110	7.9	13.0	425

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

SEVIER LAKE BASIN--Continued

10189000 EAST FORK SEVIER RIVER NEAR KINGSTON, UT (Lat 38°11'49", Long 112°09'01")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (US/CM)
OCT , 1986					MAY , 1987				
01...	1315	54	10.5	500	04...	1310	137	14.0	405
NOV					JUN				
03...	1150	81	7.0	465	02...	1245	154	15.0	440
DEC					17...	1000	153	18.0	--
10...	1205	17	1.0	610	JUL				
JAN , 1987					13...	--	140	--	410
22...	1210	101	1.0	--	AUG				
FEB					11...	1255	182	21.0	405
27...	1130	78	4.0	450	14...	--	46	--	--
APR					SEP				
09...	1220	213	9.0	385	01...	1215	36	15.0	470

10191500 SEVIER RIVER BELOW PIUTE DAM, NEAR MARYSVALE, UT
(Lat 38°19'43", Long 112°11'30")

OCT , 1986					APR , 1987				
01...	1420	6.4	14.0	475	09...	1425	346	6.0	455
NOV					MAY				
03...	1305	12	11.0	500	04...	1440	496	12.0	435
DEC					JUN				
10...	1320	11	1.0	490	03...	1150	246	15.0	445
JAN , 1987					JUL				
22...	1320	13	2.0	--	31...	1205	200	20.0	480
FEB					SEP				
27...	1240	327	7.0	475	01...	1335	242	19.0	485

10194000 SEVIER RIVER ABOVE CLEAR CREEK, NEAR SEVIER, UT
(Lat 38°34'20", Long 112°15'27")

OCT , 1986					APR , 1987				
01...	1520	48	13.0	540	15...	1210	437	6.0	445
NOV					MAY				
11...	1130	39	3.0	540	21...	1150	388	18.0	380
DEC					JUN				
10...	1415	55	1.0	620	18...	0850	548	18.0	430
JAN , 1987					JUL				
23...	0830	12	.5	--	31...	1315	311	21.0	455
MAR					SEP				
04...	1510	50	4.0	475	14...	--	194	--	--

10194200 CLEAR CREEK ABOVE DIVERSIONS, NEAR SEVIER, UT
(Lat 38°34'45", Long 112°17'22")

OCT , 1986					MAY , 1987				
01...	1615	20	11.0	--	21...	1050	119	7.0	190
NOV					JUN				
10...	1035	10	1.5	270	17...	1255	69	13.0	130
DEC					JUL				
10...	1505	5.9	1.0	315	16...	1050	22	17.0	195
JAN , 1987					AUG				
23...	1015	4.7	.5	--	26...	1100	18	15.0	230
MAR					SEP				
18...	1010	15	4.5	295	15...	1020	15	10.0	255
APR									
15...	1240	54	6.0	--					

10205000 SEVIER RIVER NEAR SIGURD, UT (Lat 38°52'13", Long 111°57'14")

OCT , 1986					MAY , 1987				
02...	0950	142	10.5	1120	12...	1530	47	19.5	1220
DEC					JUN				
03...	1345	127	7.0	--	09...	1205	151	19.5	1020
JAN , 1987					JUL				
13...	1420	333	.5	600	14...	1310	30	21.0	1260
MAR					AUG				
03...	1220	346	8.0	790	25...	1355	9.6	19.0	1210
30...	1310	469	5.5	700					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
SEVIER LAKE BASIN--Continued									
10205030 SALINA CREEK NEAR EMERY, UT (Lat 38°54'43", Long 111°31'47")									
OCT , 1986					MAY , 1987				
08...	0845	12	3.0	500	13...	1540	72	10.0	300
DEC					JUN				
04...	0940	10	.0	485	09...	1500	30	7.5	460
JAN , 1987					JUL				
14...	1305	5.5	.0	480	15...	1445	12	18.0	420
MAR					AUG				
31...	1045	9.2	2.5	530	26...	1335	10	12.5	425
10206000 SALINA CREEK AT SALINA, UT (Lat 38°57'24", Long 111°51'58")									
OCT , 1986					MAY , 1987				
08...	1035	24	5.0	1130	13...	0840	156	9.5	485
DEC					JUN				
04...	1135	22	.5	1330	09...	1315	42	15.5	910
JAN , 1987					JUL				
14...	1420	29	.0	1320	15...	1150	1.2	19.0	3300
MAR					AUG				
03...	1505	25	8.5	1150	26...	1110	3.1	14.5	2030
30...	1200	14	6.0	1330					
APR									
06...	1450	46	9.5	--					
10208500 OAK CREEK NEAR FAIRVIEW, UT (Lat 39°40'26", Long 111°24'30")									
OCT , 1986					MAY , 1987				
08...	1110	4.0	6.0	560	05...	1125	52	7.0	400
NOV					JUN				
19...	0925	6.2	4.5	540	11...	1500	17	12.5	485
JAN , 1987					JUL				
06...	1440	4.4	.0	540	15...	1545	3.8	17.0	--
MAR					AUG				
05...	1420	4.9	7.5	520	24...	1645	3.6	14.0	420
APR									
07...	1020	5.7	4.0	560					
10215703 OAK CREEK NEAR SPRING CITY, UT (Lat 39°26'52", Long 111°25'29")									
OCT , 1986					MAY , 1987				
10...	1600	5.5	6.5	435	05...	1350	13	8.0	400
NOV					JUN				
19...	1140	5.8	4.0	430	10...	1530	27	10.5	400
JAN , 1987					JUL				
06...	1255	4.8	.0	400	15...	1240	7.7	11.0	410
MAR					AUG				
06...	0850	5.8	2.5	410	24...	1310	5.2	14.0	370
APR									
07...	1305	4.8	5.5	420					
10215900 MANTI CREEK BELOW DUGWAY CREEK, NEAR MANTI, UT (Lat 39°15'33", Long 111°34'45")									
OCT , 1986					APR , 1987				
06...	--	10	--	590	09...	0935	10	2.0	630
NOV					MAY				
19...	1605	9.2	3.0	560	05...	1710	70	10.0	430
DEC					JUN				
23...	1010	5.0	.0	730	10...	1100	60	8.5	445
MAR					JUL				
04...	1340	4.8	3.5	660	15...	1015	18	10.0	540
APR					AUG				
07...	1620	13	7.0	600	24...	1105	13	13.5	480
10217000 SEVIER RIVER BELOW SAN PITCH RIVER, NEAR GUNNISON, UT (Lat 39°09'19", Long 111°52'37")									
OCT , 1986					MAY , 1987				
06...	1235	315	12.0	1780	13...	1140	258	16.5	1580
DEC					JUN				
04...	1520	416	5.0	1630	10...	0850	268	16.5	1720
JAN , 1987					JUL				
14...	0920	658	.0	1240	15...	0920	84	16.5	2660
MAR					AUG				
04...	1150	653	6.0	1260	26...	0830	84	12.5	2670
APR									
01...	1200	735	8.5	1130					

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

SEVIER LAKE BASIN--Continued

10219000 SEVIER RIVER NEAR JUAB, UT (Lat 39°22'29", Long 112°02'20")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					MAY , 1987				
07...	1745	47	16.5	1440	05...	1445	319	13.0	1440
NOV					JUN				
13...	1100	14	8.0	1550	17...	1450	958	17.5	1380
DEC					AUG				
16...	1250	328	5.0	1540	04...	1600	490	20.0	1500
FEB , 1987					SEP				
18...	1335	588	4.0	1590	14...	1710	5.8	23.0	1700
MAR									
31...	1025	755	9.0	1580					

10219200 CHICKEN CREEK NEAR LEVAN, UT (Lat 39°33'00", Long 111°49'31")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					MAY , 1987				
10...	1150	3.5	11.5	1000	05...	1925	4.0	15.5	800
NOV					JUN				
13...	1550	2.3	7.0	1030	17...	1950	1.8	18.0	960
DEC					AUG				
16...	1710	1.3	4.5	1070	04...	1910	.76	23.0	1080
FEB , 1987					SEP				
03...	1230	.72	3.0	--	14...	1930	.59	15.5	1170
MAR									
31...	1200	1.5	12.0	1070					

10224100 OAK CREEK ABOVE LITTLE CREEK, NEAR OAK CITY, UT
(Lat 39°21'23", Long 112°13'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					MAY , 1987				
08...	1020	.87	6.0	310	06...	1700	3.5	14.0	145
NOV					JUN				
14...	1030	.82	4.0	300	18...	2010	.73	15.5	250
DEC					AUG				
17...	1600	.73	2.0	295	05...	1520	.32	21.0	300
FEB , 1987					SEP				
18...	1820	.36	1.5	280	15...	1620	.30	15.5	305
APR									
15...	1035	3.9	5.5	150					

BEAVER RIVER BASIN

10234500 BEAVER RIVER NEAR BEAVER, UT (Lat 38°16'50", Long 112°34'25")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					APR , 1987				
16...	--	30	--	--	27...	1015	98	6.0	95
NOV					MAY				
24...	1025	28	1.0	140	26...	1020	96	4.5	93
DEC					JUN				
23...	1420	21	.5	135	26...	--	84	--	99
JAN , 1987					JUL				
26...	1130	23	.0	140	27...	1210	64	22.0	120
FEB					AUG				
23...	1020	23	.5	140	26...	1445	35	16.0	125
MAR					SEP				
25...	1040	23	2.0	140	28...	1250	24	12.0	135

10237000 BEAVER RIVER AT ADAMSVILLE, UT (Lat 38°15'13", Long 112°45'56")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					APR , 1987				
16...	1600	52	15.0	415	27...	1235	7.6	19.0	630
NOV					JUN				
24...	1245	48	6.0	385	12...	--	2.5	--	630
JAN , 1987					JUL				
26...	1345	50	1.0	355	27...	--	.30	--	--
MAR					AUG				
18...	1155	58	10.0	465	27...	1615	2.7	26.0	780

10239000 BEAVER RIVER AT ROCKY FORD DAM, NEAR MINERSVILLE, UT
(Lat 38°13'03", Long 112°50'22")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					APR , 1987				
16...	1720	8.3	15.0	560	27...	--	49	--	520
NOV					JUN				
24...	1450	8.4	10.0	590	12...	--	54	--	510
JAN , 1987					JUL				
26...	1455	9.8	4.0	560	27...	1450	25	22.0	540
MAR					AUG				
18...	1450	13	11.0	540	27...	1450	113	21.0	590

WATER-QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

PAROWAN VALLEY

10241470 CENTER CREEK ABOVE PAROWAN CREEK, NEAR PAROWAN, UT (Lat 37°47'35", Long 112°48'55")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					APR , 1987				
10...	1505	4.6	9.5	315	28...	1515	8.1	12.5	320
NOV					JUN				
10...	1555	4.8	2.5	335	03...	1430	7.5	15.5	270
DEC					JUL				
12...	1600	3.1	.0	335	31...	1310	5.8	14.5	280
JAN , 1987					SEP				
15...	1710	3.7	.0	335	10...	1325	4.8	3.5	310
MAR									
24...	1225	5.8	.0	335					

10241600 SUMMIT CREEK NEAR SUMMIT, UT (Lat 37°47'13", Long 112°54'56")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					APR , 1987				
10...	1310	2.6	10.0	405	26...	1720	28	10.5	325
NOV					JUN				
10...	1355	1.6	4.0	465	03...	1245	8.1	13.0	400
DEC					JUL				
12...	1335	3.2	1.0	430	31...	1105	2.1	15.5	415
JAN , 1987					SEP				
15...	1420	2.8	.0	490	10...	1105	1.9	12.5	435
MAR									
24...	1520	1.5	6.0	465					

CEDAR CITY VALLEY

10242000 COAL CREEK NEAR CEDAR CITY, UT (Lat 37°40'20", Long 113°02'02")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					MAY , 1987				
17...	1130	20	8.0	500	12...	1340	94	13.0	360
NOV					JUN				
26...	1630	14	1.0	570	23...	1455	23	20.5	465
JAN , 1987					JUL				
15...	1135	6.2	.0	700	31...	1700	14	23.0	485
APR					SEP				
01...	1325	23	10.5	500	10...	1620	10	21.0	540

RAFT RIVER BASIN

13077700 GEORGE CREEK NEAR YOST, UT (Lat 41°55'07", Long 113°28'51")

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
OCT , 1986					APR , 1987				
08...	1355	3.6	9.0	130	21...	1420	6.2	9.0	110
NOV					MAY				
19...	1220	2.8	3.0	140	12...	1115	22	7.5	71
DEC					JUN				
30...	1320	2.0	4.0	130	25...	1210	6.2	12.5	110
MAR , 1987					AUG				
02...	1640	2.3	4.0	--	06...	--	3.0	11.0	140

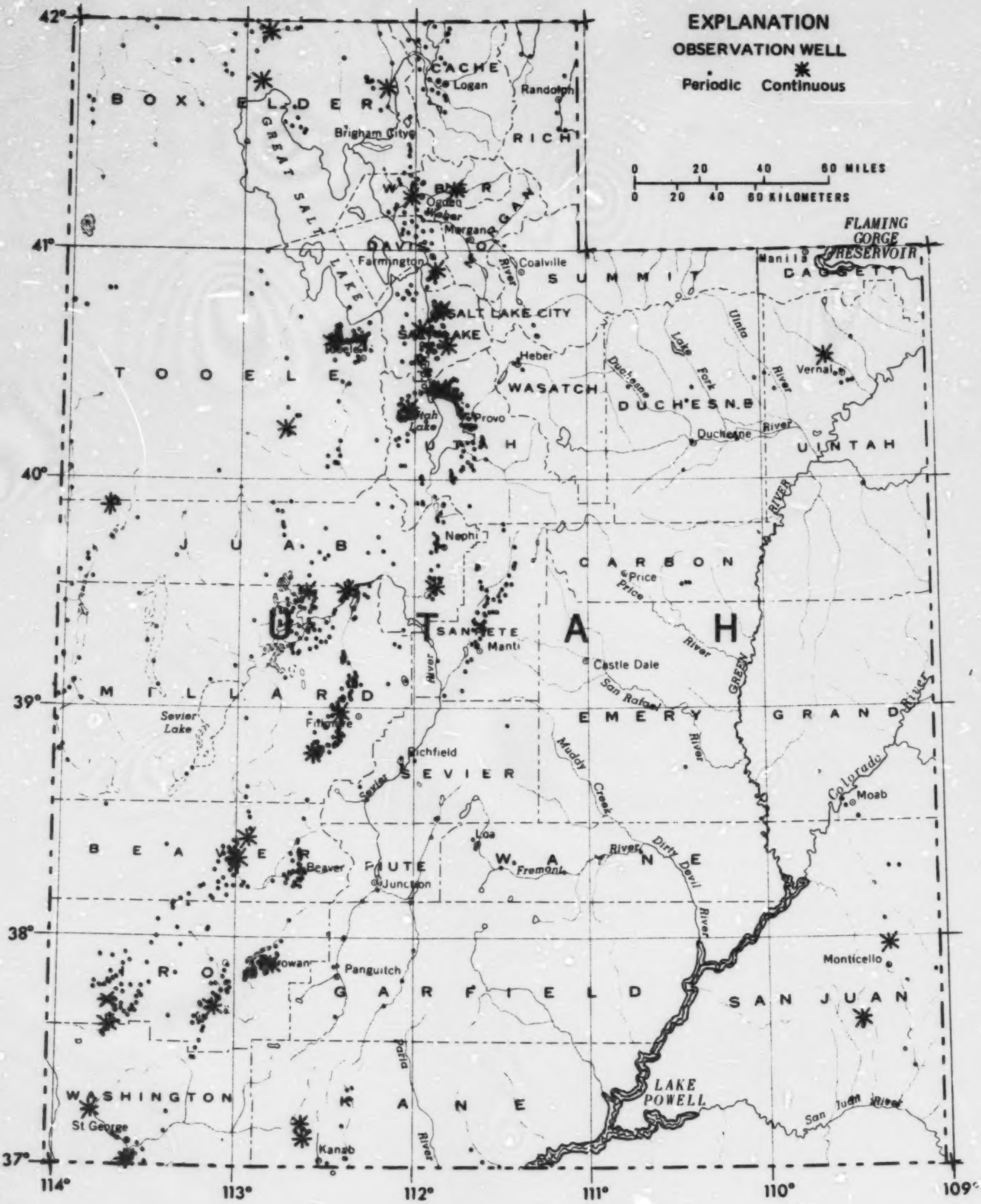

EXPLANATION
OBSERVATION WELL
Periodic
Continuous
0 20 40 60 MILES
0 20 40 60 KILOMETERS
42°
41°
40°
39°
38°
37°
114°
113°
112°
111°
110°
109°
BOX ELDER
CACHE
Logan
Randolph
RICH
Brigham City
GREAT SALT LAKE
WEBER
Ogden
Heber
Morgan
MORGAN
DAVIS
Farmington
Coalville
SUMMIT
FLAMING GORGE RESERVOIR
Manila
DAGGETT
SALT LAKE CITY
SALT LAKE
Tooele
TOOELE
Heber
WASATCH
Utah Lake
Provo
UTAH
DUCHESNE
Duchesne
Uinta River
Lake Fork
Duchesne River
Vernal
UINTAH
JUAB
Nephi
CARBON
Price
Price River
U T A H
SANPETE
Manti
Castle Dale
San Rafael River
MILLARD
Sevier Lake
Fillmore
EMERY
GRAND
Colorado River
Richfield
Sevier River
SEVIER
Muddy Creek
Moab
GREEN RIVER
BEAVER
Beaver
PIUTE
Junction
Loa
WAYNE
Fremont River
Dirty Devil River
Parowan
IRON
Panguitch
GARFIELD
Monticello
SAN JUAN
LAKE POWELL
WASHINGTON
St George
KANE
Kanab
Paria River
San Juan River

Figure 16. —Location of observation wells in Utah where data were obtained on ground-water levels.

BEST COPY AVAILABLE

BEAVER COUNTY

382551112555101. LOCAL NUMBER, (C-27-10)25cbd-1.
LOCATION.--Lat 38°25'51", long 112°55'51", Hydrologic Unit 16030007.
Owner: Phillips Petroleum.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 400 ft.
DATUM.--Land-surface datum is 5,320 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--April 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 323.75 ft below land-surface datum, May 15, 1976; lowest, 327.42 ft below land-surface datum, Oct. 6, 1985.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	326.62	326.68	326.70	326.57	326.67	327.14	326.64	326.71	326.82	326.63	326.62	326.61
10	326.75	326.54	326.52	326.65	326.95	326.96	326.74	326.76	326.80	326.62	326.65	326.61
15	326.61	326.64	326.63	326.95	326.87	327.07	326.67	326.78	326.83	326.66	326.54	326.54
20	326.61	326.42	326.57	326.64	326.88	326.65	326.39	326.81	326.79	326.51	326.61	326.49
25	326.60	326.57	326.61	326.66	326.92	326.81	326.67	327.00	326.66	326.53	326.66	326.57
EOM	326.66	326.38	326.78	326.81	326.91	326.85	326.82	326.88	326.68	326.51	326.59	326.49

382020112585901. LOCAL NUMBER, (C-28-10)28cdd-1.
LOCATION.--Lat 38°20'20", Long 112°58'59", Hydrologic Unit 16030007.
Owner: Wiseman.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in., depth 360 ft, cased to 60 ft.
DATUM.--Land-surface datum is 5,019 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--April 1952 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.99 ft below land-surface datum, Sep. 30, Oct. 1, 1984; lowest, 59.26 ft below land-surface datum, Oct. 8, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.67	17.10	18.05	18.99	19.92	20.54	21.20	31.40	32.59	33.65	31.02	32.37
10	16.59	17.27	18.23	19.21	19.99	20.64	21.30	31.96	29.49	33.70	30.71	28.23
15	16.65	17.40	18.38	19.28	20.10	20.70	21.39	32.24	28.41	33.88	30.18	25.43
20	16.71	17.61	18.53	19.42	20.23	20.76	21.69	32.50	29.75	33.91	32.49	23.58
25	16.84	17.74	18.67	19.60	20.29	20.93	23.70	33.44	32.13	31.04	33.59	22.25
EOM	17.00	17.91	18.88	19.73	20.38	21.10	28.85	33.67	33.64	31.00	34.02	21.42

BOX ELDER COUNTY

414236112101201. LOCAL NUMBER, (B-11-3)10abb-4.
LOCATION.--Lat 41°42'36", long 112°10'12", Hydrologic Unit 16010204.
Owner: Rocky Mountain Packing Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 705 ft, cased to 437 ft.
DATUM.--Land-surface datum is 4,318 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--October 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.00 ft below land-surface datum, July 27, Sep. 12, 1984; lowest, 24.43 ft below land-surface datum, Mar. 5, 9, 10, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.78	16.01	16.25	16.65	17.24	17.69	18.05	18.42	18.30	18.20	18.08	17.95
10	15.83	16.02	16.34	16.86	17.34	17.69	18.21	18.42	18.28	18.19	18.06	17.94
15	15.89	16.05	16.41	16.88	17.34	17.70	18.27	18.41	18.25	18.19	17.97	17.89
20	15.86	16.04	16.47	16.97	17.43	17.73	18.26	18.28	18.28	18.13	18.00	17.93
25	15.93	16.17	16.58	17.04	17.39	17.86	18.38	18.26	18.31	18.10	17.99	17.92
EOM	15.96	16.16	16.75	17.12	17.54	18.10	18.39	18.22	18.26	18.09	17.99	17.98

BOX ELDER COUNTY--Continued

414411112543701. LOCAL NUMBER, (B-12-9)30cda-1.
LOCATION.--Lat 41°44'11", long 112°54'37", Hydrologic Unit 16020309.
Owners: U.S. Geological Survey.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 162 ft, cased to 131 ft.
DATUM.--Land-surface datum is 4,239 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--August 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.28 ft below land-surface datum, June 5, 15, 1986; lowest, 25.53 ft below land-surface datum, Oct. 15, 20, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.71	23.67	23.70	23.57	23.55	23.45	23.25	23.17	23.09	23.24	23.35	23.46
10	23.67	23.72	23.70	23.61	23.51	23.46	23.20	23.12	e23.11	23.28	23.37	23.47
15	23.72	23.68	23.66	23.60	23.50	23.38	23.21	23.10	e23.14	23.20	23.42	23.49
20	23.72	23.73	23.65	23.60	23.47	23.37	23.24	23.10	e23.17	23.23	23.41	23.52
25	23.73	23.72	23.65	23.53	23.47	23.32	23.18	23.08	23.19	23.08	23.43	23.51
EOM	23.72	23.75	23.62	23.52	23.49	23.28	23.14	23.08	23.24	23.32	23.46	23.56

415703112514501. LOCAL NUMBER, (B-14-9)9add-1.
LOCATION.--Lat 41°57'03", long 112°51'45", Hydrologic Unit 16020309.
Owner: Hogan.
AQUIFER.--Basalt.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 20 in., depth 400 ft, cased to 395 ft.
DATUM.--Land-surface datum is 4,384 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1981 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 161.77 ft below land-surface datum, May 3, 1986; lowest, 177.03 ft below land-surface datum, Oct. 1, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	166.86	164.17	163.25	162.44	162.48	161.68	160.93	163.15	e168.27	170.98	170.45	171.19
10	165.99	164.29	163.29	162.84	162.05	161.62	160.82	164.14	e168.17	171.76	170.31	169.96
15	165.73	163.15	163.09	162.47	161.91	161.20	160.83	166.84	e168.07	172.24	171.60	171.35
20	165.32	163.76	162.95	162.59	162.00	161.25	160.96	167.25	167.97	172.67	171.26	169.18
25	165.06	163.64	162.90	162.45	161.70	161.26	161.12	168.48	168.91	172.61	169.86	168.10
EOM	164.66	163.54	162.75	162.28	161.88	161.10	162.12	e168.37	170.39	172.37	169.77	167.56

DAVIS COUNTY

405447111524301. LOCAL NUMBER, (A-2-1)18abd-12.
LOCATION.--Lat 40°54'47", long 111°52'43". Hydrologic Unit 16020102.
Owner: T. Q. Williams.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Jetted unused artesian well, diameter 2 in., depth 90 ft, cased to 90 ft.
DATUM.--Land-surface datum is 4,285 ft above mean sea level. Measuring point: Top of recorder shelter support, 2.40 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--May 1938 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.60 ft above land-surface datum, June 9, 1944; lowest, 2.70 ft above land-surface datum Aug. 5, 1961.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.90	18.50	18.30	22.30	20.80	19.50	18.60	18.40	17.60	15.00	15.70	16.80
10	17.80	18.60	18.20	22.70	20.50	19.50	20.20	17.20	17.20	15.30	16.20	16.60
15	18.00	18.50	18.30	22.50	21.00	18.80	19.20	17.20	16.70	15.70	16.30	17.70
20	18.30	18.70	18.60	22.40	21.00	20.00	17.80	17.10	16.40	16.00	16.90	18.00
25	18.20	18.20	18.90	21.00	19.20	19.40	17.20	17.80	15.30	16.20	17.00	17.30
EOM	18.20	18.20	17.80	19.50	19.50	18.60	16.80	17.70	16.20	16.20	17.90	17.90

e Estimated

375241112471001. LOCAL NUMBER, (C-34-8)5bca-1.
LOCATION.--Lat 37°52'41", long 112°47'10", Hydrologic Unit 16030006.
Owner: Paragonah Canal Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISITCS.--Drilled unused artesian well, diameter 12 in., depth 420 ft.
DATUM.--Land-surface datum is 5,802 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--September 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.45 ft below land-surface datum, June 26, 1949; lowest, 42.40 ft below land-surface datum, Sept. 7, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e30.14	30.08	30.85	31.05	31.40	31.43	31.50	31.32	31.56	31.48	32.03	31.69
10	e30.08	30.24	30.94	31.24	31.34	31.44	31.48	31.31	31.54	31.61	31.93	31.73
15	e30.01	30.40	30.97	31.14	31.31	31.35	31.51	31.37	31.49	31.78	31.91	31.77
20	29.97	30.59	31.00	31.27	31.38	31.41	31.51	31.42	31.39	31.90	31.84	31.58
25	29.92	30.66	31.05	31.32	31.36	31.49	31.42	31.44	31.42	32.03	31.90	31.49
EOM	29.93	30.80	31.10	31.30	31.43	31.49	31.36	31.56	31.42	31.99	31.74	31.62

374132113063601. LOCAL NUMBER, (C-36-11)6aab-1.
LOCATION.--Lat 37°41'32", long 113°06'36", Hydrologic Unit 16030006.
Owner: Cedar City Corporation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 220 ft.
DATUM.--Land-surface datum is 5,563 ft above mean sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--September 1935 to December 1943, March 1945 to March 1973, April 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.67 ft below land-surface datum, Sept. 27, 1943; lowest, 100.08 ft below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	e55.88	53.33	52.73	51.87	50.42	50.58	49.77	e50.08	e54.37	60.63	59.82	64.76
10	e55.18	53.31	52.73	52.15	51.18	50.44	49.67	e50.78	e55.07	e60.52	61.53	65.67
15	e54.62	53.22	52.65	51.72	50.97	50.03	49.70	e51.48	55.77	e60.45	62.06	e63.48
20	54.20	53.10	52.56	51.75	50.96	50.00	49.70	e52.13	e56.93	e60.36	62.59	61.34
25	54.02	52.90	52.45	51.66	50.67	50.03	49.51	e52.83	58.88	59.70	62.94	60.87
EOM	53.61	52.88	52.28	50.39	50.73	49.87	49.58	e53.67	59.96	59.44	64.12	60.42

374053113415101. LOCAL NUMBER, (C-36-16)6cbc-1.
LOCATION.--Lat 37°40'53", long 113°41'51", Hydrologic Unit 16030006.
Owner: RedCo Silver, Inc.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in., depth 270 ft, perforated 81-85 ft, 95-100 ft, 114-120 ft, 144-147 ft, 155-162 ft, 182-184 ft, 188-193 ft, 198-202 ft, 218-222 ft, 227-232 ft, 249-252 ft, 257-259 ft, 263-267 ft.
DATUM.--Land-surface datum is 5,210.67 ft above mean sea level. Measuring point: Bottom lip of access pipe, at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--December 1951 to December 1953, April 1959 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.35 ft below land-surface datum, Apr. 4, 1952; lowest, 146.98 ft below land-surface datum, Sept. 4, 5, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	144.55	141.52	139.55	137.67	136.14	135.04	133.48	134.38	139.01	142.43	144.99	146.98
10	143.97	141.23	139.31	137.59	135.75	134.80	133.08	135.61	138.83	143.36	145.11	146.85
15	143.50	140.80	139.05	137.12	135.42	134.33	132.96	136.72	138.94	144.11	145.90	146.70
20	143.00	140.46	138.76	137.03	135.40	134.25	132.90	137.20	139.57	143.99	146.40	146.50
25	142.53	140.17	138.47	136.75	135.18	134.02	132.73	137.77	140.41	144.33	146.44	146.04
EOM	142.00	139.94	138.07	136.31	135.19	133.66	133.17	138.41	141.42	144.61	146.89	145.64

e Estimated.

IRON COUNTY--Continued

373643113415301. LOCAL NUMBER, (C-36-17)36add-1.
LOCATION.--Lat 37°36'43", long 113°41'53", Hydrologic Unit 16030006.
Owner: Sherwood Bracken.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth 202 ft.
DATUM.--Land-surface datum is 5,269.89 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--There are several nearby pumped wells. Records good.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.40 ft below land-surface datum, Mar. 24, 1950; lowest, 188.09 ft below land-surface datum, Sept. 1, 3, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	179.46	177.31	175.96	174.92	174.95	174.21	173.69	174.26	178.61	185.24	185.74	187.79
10	178.96	177.18	175.87	175.22	174.63	174.14	173.42	175.58	178.32	186.11	185.33	187.23
15	178.73	176.89	175.71	174.83	174.42	173.73	173.44	176.07	178.14	186.53	186.80	186.68
20	178.45	176.63	175.52	175.11	174.54	173.89	173.51	176.44	180.08	184.64	187.57	186.15
25	178.13	176.32	175.39	175.07	174.39	173.87	173.32	178.20	182.64	185.09	187.89	185.75
EOM	177.73	176.36	175.20	174.78	174.39	173.67	173.63	178.49	183.96	185.37	187.56	185.39

JUAB COUNTY

395259113430401. LOCAL NUMBER, (C-11-17)12cbb-1.
LOCATION.--Lat 39°52'59", long 113°43'04", Hydrologic Unit 16020306.
Owner: Dorcy Sabey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled irrigation artesian well, diameter 16 in, depth unknown.
DATUM.--Land-surface datum is 4,390.00 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--October 1986 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.82 ft below land-surface datum, June 26, 1987; lowest, 49.34 ft below land-surface datum, Sept. 16, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	48.06	48.14	48.45	48.73	48.61	48.91	48.08	46.71	46.55	47.70	48.91
10	48.15	48.09	48.25	48.56	48.71	48.84	48.89	48.03	46.54	47.15	48.06	49.05
15	48.10	48.11	48.31	48.52	48.71	48.77	48.88	48.15	46.22	47.21	48.26	49.03
20	48.08	48.08	48.35	48.62	48.77	48.86	48.83	47.63	45.87	47.34	49.26	49.26
25	48.11	48.07	48.42	48.65	48.77	48.88	48.60	47.07	47.15	47.28	48.54	49.07
EOM	48.09	48.14	48.47	48.66	48.80	48.88	48.30	46.81	46.38	47.36	49.17	49.04

393143111523301. LOCAL NUMBER, (C-15-1)12aba-1.
LOCATION.--Lat 39°31'43", long 111°52'33", Hydrologic Unit 16030005.
Owner: R. C. Mangelson.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 6 in., depth 117 ft, cased to 117 ft.
DATUM.--Land-surface datum is 5,196.90 ft above mean sea level. Measuring point: Top of casing, 1.50 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--August 1935 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 28.41 ft below land-surface datum, May 21, 1985; lowest, 62.16 ft below land-surface datum, June 20, 1936.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	33.86	33.99	34.22	34.37	34.79	35.03	35.31	36.28	38.11	41.00	42.37	43.77
10	33.81	34.10	34.31	34.61	34.74	35.06	35.39	36.92	38.64	40.78	42.64	43.81
15	33.91	34.09	34.32	34.47	34.77	34.97	35.42	37.35	39.12	41.24	42.99	43.92
20	33.90	34.15	34.36	34.62	34.83	35.08	35.57	37.67	39.29	41.65	43.27	44.19
25	33.92	34.15	34.39	34.66	34.82	35.19	35.88	37.91	39.69	42.15	43.69	44.38
EOM	33.99	34.19	34.43	34.67	34.87	35.30	35.96	38.00	40.01	42.09	44.03	44.67

KANE COUNTY

370901112335001. LOCAL NUMBER, (C-42-6)19baa-1.
LOCATION.--Lat 37°09'01", long 112°33'50", Hydrologic Unit 15010003.
Owner: Kanab City.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 27 in., depth 560 ft.
DATUM.--Land-surface datum is 5,660.00 ft above mean sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--May 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 160.72 ft below land-surface datum, Mar. 4, 1987; lowest, 167.20 ft below land-surface datum, Aug. 25, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	161.30	161.43	161.44	161.60	160.90	160.81	161.33	161.41	161.41	161.18	161.20	161.12
10	161.50	161.31	161.39	161.11	161.24	161.08	161.35	161.22	161.20	161.14	161.18	161.12
15	161.28	161.41	161.41	161.68	161.34	160.86	161.46	161.33	161.16	161.26	161.09	161.18
20	161.49	161.37	161.44	161.16	161.21	161.06	161.52	161.09	161.13	161.32	161.32	161.24
25	161.32	161.51	161.43	160.99	161.46	161.36	161.41	160.95	161.33	161.29	161.25	161.16
EOM	161.58	161.33	161.36	161.29	161.04	161.50	161.17	161.30	161.22	161.33	161.34	161.32

370523112334702. LOCAL NUMBER, (C-42-6)30dcc-2.
LOCATION.--Lat 37°05'23", long 112°33'47", Hydrologic Unit 15010003.
Owner: Kanab City.
AQUIFER.--Consolidated Navajo Sandstone.
WELL CHARACTERISTICS.--Drilled well, diameter 6 in., depth 230 ft.
DATUM.--Land-surface datum is 5,280.00 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--December 1985 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 53.30 ft below land-surface datum, Apr. 25, 1986; lowest, 60.16 ft below land-surface datum, Mar. 12, 13, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.27	57.58	58.15	58.80	59.78	59.35	e59.80	59.12	57.97	58.70	57.99	57.19
10	57.56	57.51	58.42	59.07	59.89	60.15	e59.72	58.89	57.83	58.91	57.87	57.08
15	57.88	57.19	58.00	59.16	60.03	e60.13	e59.65	58.63	57.67	59.16	57.69	57.01
20	58.11	56.91	57.52	59.32	59.58	e60.05	e59.57	58.42	57.53	58.72	57.51	56.92
25	58.27	57.65	58.20	59.47	60.15	e59.98	e59.49	58.23	58.02	58.37	57.37	56.82
EOM	57.97	57.70	58.67	59.56	59.77	e59.88	59.30	58.12	57.85	58.14	57.29	56.74

MILLARD COUNTY

393046112251301. LOCAL NUMBER, (C-15-5)15dad-1.
LOCATION.--Lat 39°30'46", long 112°23'13", Hydrologic Unit 16030005.
Owner: Anaconda Copper Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 1,190 ft, cased to 1,115 ft, perforated 860-1,050 ft.
DATUM.--Land-surface datum is 4,780 ft above mean sea level. Measuring point: Top of 12-in. casing, 2.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--January 1975 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 99.03 ft below land-surface datum, Apr. 2, 1986; lowest, 174.62 ft below land-surface datum, Aug. 24, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	99.78	99.60	99.71	99.51	99.97	99.86	99.77	99.97	100.04	99.92	100.08	100.04
10	99.66	99.79	99.93	99.90	99.64	99.70	99.76	99.99	99.87	100.02	99.95	99.98
15	99.87	99.69	99.76	99.54	99.64	99.55	99.92	100.03	99.97	100.0	99.89	100.12
20	99.69	99.70	99.83	99.84	99.82	99.71	99.92	99.88	99.92	100.18	99.87	100.24
25	99.79	99.75	99.86	99.78	99.54	99.72	99.88	99.76	100.02	100.03	99.87	100.20
EOM	99.78	99.77	99.65	99.72	99.79	99.86	99.90	99.94	100.09	100.08	100.09	100.33

e Estimated.

MILLARD COUNTY--Continued

393020112362201. LOCAL NUMBER, (C-15-7)23bac-1.
LOCATION.--Lat 39°30'20", long 112°36'22", Hydrologic Unit 16030007.
Owner: U.S. Geological Survey.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in., depth 182 ft.
DATUM.--Land-surface datum is 4,629 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--August 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.52 ft below land-surface datum, Apr. 4, 1987; lowest, 15.91 ft below land-surface datum, Oct. 16, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.39	9.13	9.11	8.84	8.75	8.70	8.53	8.77	8.89	9.01	9.18	9.18
10	9.30	9.18	9.16	8.94	8.72	8.68	8.57	8.75	8.87	9.05	9.18	9.22
15	9.34	9.15	9.07	8.78	8.66	8.54	8.62	8.78	8.83	9.11	9.18	9.20
20	9.30	9.15	9.05	8.82	8.67	8.56	8.68	8.77	8.90	9.14	9.17	9.24
25	9.31	9.13	9.02	8.77	8.59	8.60	8.73	8.77	9.01	9.12	9.22	9.21
EOM	9.22	9.20	8.98	8.69	8.69	8.62	8.72	8.82	9.04	9.14	9.22	9.22

385844112245801. LOCAL NUMBER, (C-21-5)21aba-1.
LOCATION.--Lat 38°58'44", long 112°24'58", Hydrologic Unit 16030005.
Owner: Delbert Crapo.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 246 ft, cased to 220 ft.
DATUM.--Land-surface datum is 4,744.44 ft above mean sea level. Measuring point: Top of casing, 0.50 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--May 1929 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.96 ft above land-surface datum, Feb. 24, 1949; lowest, 83.02 ft below land-surface datum, July 20, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.39	6.77	6.30	6.17	6.58	6.75	7.12	15.33	16.40	21.78	22.36	22.15
10	7.96	6.75	6.43	6.45	6.53	6.74	8.33	15.91	16.67	19.50	22.77	20.89
15	7.81	6.34	6.35	6.25	6.44	6.70	9.64	16.10	17.84	20.66	24.37	20.68
20	e7.50	6.19	6.31	6.40	6.55	6.79	10.16	14.97	21.00	e21.20	23.33	e20.90
25	e7.30	6.07	6.28	6.48	6.51	e6.90	13.24	14.13	19.85	20.13	22.51	21.28
EOM	7.17	6.05	6.27	6.47	6.64	e7.00	15.44	14.48	21.82	21.92	21.47	e20.40

384906112330601. LOCAL NUMBER, (C-23-6)17baa-1.
LOCATION.--Lat 38°49'06", long 112°33'06", Hydrologic Unit 16030005.
Owner: Boyd Watts.
AQUIFER.--
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 18 in., depth 262 ft, cased to 140 ft.
DATUM.--Land-surface datum is 4,711.00 ft above mean sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--June 1958 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.34 ft below land-surface datum, Jan. 28, 1987; lowest, 54.03 ft below land-surface datum, Sept. 6, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.90	e29.50	28.91	e28.70	28.70	28.32	28.10	31.17	e32.00	31.20	29.49	29.18
10	29.59	e29.40	29.00	27.86	28.43	28.27	27.98	31.15	32.19	32.58	29.90	28.46
15	29.66	e29.20	28.90	27.47	28.31	27.98	28.20	32.25	32.43	31.34	31.22	28.40
20	29.56	e29.20	28.85	27.71	28.43	28.09	29.08	31.61	32.94	33.00	31.74	28.43
25	29.53	e29.10	28.90	27.65	28.29	28.20	29.70	e31.60	32.64	30.40	30.95	28.62
EOM	29.47	29.16	28.80	27.50	28.40	28.13	30.30	e31.80	31.39	28.38	29.70	28.36

e Estimated.

403916111575901. LOCAL NUMBER, (C-2-1)9ccc-1.

LOCATION.--Lat 40°39'16", long 111°57'59", Hydrologic Unit 16020204.
Owner: Salt Lake County Conservancy District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled artesian unused public supply well, diameter 16 in., depth 795 ft, perforated 187-372 ft.
DATUM.--Land-surface datum is 4,461 ft above mean sea level. Measuring point: Top of casing, 2.10 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--April 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.75 ft below land-surface datum, Oct. 25, 1971; lowest, 86.80 ft below land-surface datum, July 25, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	65.78	63.24	61.99	63.45	63.78	62.39	61.77	65.86	72.97	76.95	79.60	75.72
10	65.20	63.06	62.02	63.93	63.36	62.22	61.73	67.06	73.86	77.54	79.88	73.93
15	64.83	62.76	62.22	64.04	63.00	62.00	61.78	68.64	74.59	78.11	80.11	72.41
20	64.39	62.53	62.37	64.37	62.87	61.91	63.18	69.83	75.31	78.57	79.54	71.17
25	64.05	62.37	62.78	64.45	62.57	61.91	64.10	70.80	75.97	78.86	79.81	70.01
EOM	63.61	62.22	63.29	64.02	62.54	61.85	65.15	72.02	76.45	79.28	77.86	69.05

404356111503901. LOCAL NUMBER, (D-1-1)16caa-1.

LOOCATION.--Lat 40°43'56", long 111°50'39", Hydrologic Unit 16020204.
Owner: Salt Lake City Corporation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 20 in., depth 502 ft, cased to 502 ft, perforated 90-486 ft.
DATUM.--Land-surface datum is 4,489.69 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.-- Records good.
PERIOD OF RECORD.--September 1934 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 47.32 ft below land-surface datum, Jun. 19-22, 1984; lowest, 70.65 ft below land-surface datum, Apr. 29, 1935.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.54	49.67	50.06	50.53	51.01	51.52	51.99	52.34	52.76	53.21	53.52	53.82
10	49.54	49.74	50.14	50.64	51.09	51.58	52.04	52.42	52.83	53.28	53.56	53.88
15	49.58	49.73	50.20	50.69	51.15	51.65	52.10	52.51	52.92	53.33	53.61	53.94
20	49.59	49.87	50.28	50.79	51.24	51.73	52.15	52.57	53.00	53.39	53.65	54.00
25	49.62	49.91	50.35	50.81	51.35	51.83	52.21	52.62	53.08	53.41	53.69	54.08
EOM	49.65	49.99	50.44	50.91	51.41	51.94	52.28	52.69	53.15	53.48	53.77	54.14

403452111484301. LOCAL NUMBER, (D-3-1)2ccc-1.

LOCATION.--Lat 40°34'52", long 111°48'43", Hydrologic Unit 16020204.
Owner: Metropolitan Water District.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 1,007 ft, perforated 525-990 ft.
DATUM.--Land-surface datum is 5,000 ft above mean sea level. Measuring point: Top of flange, at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--March 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 515.66 ft below land-surface datum, Nov. 25, 1958; lowest, 564.82 ft below land-surface datum, Sept. 29, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	552.63	547.76	544.90	543.02	542.44	540.68	540.94	545.64	550.97	556.27	560.07	562.42
10	551.70	547.57	544.82	543.53	541.90	540.32	541.08	546.73	551.59	557.13	560.63	562.98
15	551.16	546.82	544.48	542.66	541.54	539.73	541.54	547.97	552.17	557.74	560.78	563.46
20	550.23	546.29	544.21	542.92	541.49	540.07	542.53	548.59	553.34	558.19	560.87	564.02
25	549.62	545.92	544.04	542.65	540.87	540.61	543.31	549.01	554.66	558.17	561.48	564.34
EOM	548.66	545.54	543.68	542.28	541.03	540.99	544.64	549.74	555.57	559.09	562.12	564.77

SAN JUAN COUNTY

375802109191301. LOCAL NUMBER, (D-33-24)30dab-1.
LOCATION.--Lat 38°58'02", long 109°19'13", Hydrologic Unit 14080203.
Owner: A. E. C.
AQUIFER.--Sandstone.
WELL CHARACTERISTICS.--Drilled unused well, diameter 10 in., depth 319 ft.
DATUM.--Land-surface datum is 6,916 ft above mean sea level. Measuring Point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--July 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.01 ft below land-surface datum, May 26, 1987; lowest, 202.89 ft below land-surface datum, July 25, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	164.86	164.48	164.27	163.70	163.89	163.82	163.27	163.45	163.48	163.51	163.84	163.77
10	164.57	164.49	164.17	164.10	163.88	163.59	163.41	163.24	163.44	163.59	163.82	163.80
15	164.82	164.44	164.26	163.53	163.59	163.16	163.45	163.30	163.45	163.68	163.69	163.74
20	164.63	164.41	164.15	163.78	163.56	163.11	163.28	163.11	163.40	163.76	163.88	163.78
25	164.72	164.22	164.04	163.94	163.29	163.27	163.42	163.02	163.64	163.81	163.87	163.78
EOM	164.48	164.16	164.11	163.71	163.53	163.50	163.23	163.21	163.59	163.89	163.98	163.91

373830109283201. LOCAL NUMBER, (D-36-22)22daa-1.
LOCATION.--Lat 37°38'30", long 109°28'32", Hydrologic Unit 14080201.
Owner: Joseph L. Nielson.
AQUIFER.--
WELL CHARACTERISTICS.--Drilled stock artesian well, diameter 7 in., depth 140 ft.
DATUM.--Land-surface datum is 6,200 ft above mean sea level. Measuring point: Top of recorder platform, 3.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--October 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 37.15 ft below land-surface datum, July 16, 1987; lowest 57.23 ft below land-surface datum, Oct. 20, 1960.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.95	39.24	39.63	39.54	40.46	40.80	40.83	40.77	38.94	37.58	37.43	37.89
10	38.74	39.40	39.68	40.17	40.43	40.65	40.87	40.30	38.66	37.32	37.48	37.99
15	39.17	39.43	39.83	39.53	40.20	40.22	41.00	40.09	38.40	37.27	37.46	38.06
20	39.04	39.53	39.77	40.03	40.31	40.29	40.95	39.50	38.21	37.40	37.70	38.23
25	39.28	39.36	39.76	40.32	40.14	40.58	40.95	39.10	38.18	37.41	37.77	38.25
EOM	39.10	39.38	39.95	40.02	40.46	40.94	40.68	39.01	37.94	37.48	38.03	38.51

TOOELE COUNTY

403539112282901. LOCAL NUMBER, (C-2-6)36dcc-1.
LOCATION.--Lat 40°35'39", long 112°28'29", Hydrologic Unit 16020304.
Owner: E. C. Walk.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 176 ft, cased to 166 ft.
DATUM.--Land-surface datum is 4,373.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--June 1940 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 72.82 ft below land-surface datum, June 11, 1952; lowest, 98.81 ft below land-surface datum, Oct. 7, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	84.44	84.14	84.09	84.11	84.44	84.45	84.63	85.23	85.44	85.93	86.37	86.67
10	84.31	84.28	84.15	84.32	84.34	84.47	84.60	85.22	85.47	85.98	86.46	86.88
15	84.33	84.23	84.15	84.17	84.32	84.39	84.88	85.22	85.54	86.05	86.50	87.02
20	84.27	84.15	84.17	84.32	84.43	84.48	85.02	85.24	85.81	86.17	86.50	87.19
25	84.29	84.16	84.20	84.33	84.38	84.57	85.11	85.20	85.93	86.20	86.47	87.27
EOM	84.26	84.22	84.19	84.32	84.45	84.57	85.16	85.25	85.92	86.28	86.49	87.39

TOOELE COUNTY--Continued

401312112442301. LOCAL NUMBER, (C-7-8)10cbd-1.
LOCATION.--Lat 40°13'12", long 112°44'23", Hydrologic Unit 16020305.
Owner: Dugway Proving Ground.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 175 ft, cased to 175 ft, perforated 115-175 ft.
DATUM.--Land-surface datum is 4,850 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--November 1946 to March 1947, January 1951 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 73.32 ft below land-surface datum, Jan. 26, 1951; lowest, 93.67 ft below land-surface datum, Oct. 15, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	77.34	76.67	76.34	76.08	e75.97	e75.71	75.34	75.73	75.89	76.13	76.40	76.21
10	77.10	76.78	76.38	76.17	e75.93	e75.66	75.43	75.71	75.95	76.28	76.33	76.27
15	77.15	76.66	76.32	76.08	e75.89	e75.61	75.38	75.82	75.87	76.32	76.40	76.19
20	77.06	76.60	76.28	76.09	e75.85	e75.56	75.47	75.76	76.00	76.49	76.38	76.19
25	77.00	76.54	76.25	e76.05	e75.81	e75.51	75.56	75.62	76.17	76.39	76.33	76.09
EOM	76.88	76.63	76.12	e76.01	e75.76	75.51	75.61	75.67	76.18	76.42	76.29	76.13

UINTAH COUNTY

403158109372201. LOCAL NUMBER, (D-3-20)25abc-2.
LOCATION.--Lat 40°31'58", long 109°37'22", Hydrologic Unit 14060002.
Owner: H. T. Peltier.
AQUIFER.--Glacial outwash.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 43 ft, cased to 32 ft.
DATUM.--Land-surface datum is 5,992 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--May 1965 to August 1966, March 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.97 ft below land-surface datum, July 5, 1966; lowest, 7.50 ft below land-surface datum, Sept. 5, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.47	5.88	5.96	6.05	5.93	5.88	5.80	6.15	5.14	5.48	5.38	6.13
10	5.74	5.88	5.97	6.05	5.88	5.70	5.97	6.03	4.93	5.61	5.50	6.26
15	5.61	5.89	6.07	6.06	5.80	5.76	6.12	5.59	5.04	5.70	5.59	6.35
20	5.58	5.93	6.07	5.96	5.84	5.69	6.26	5.37	5.10	5.44	5.84	6.44
25	5.66	5.95	6.08	6.03	5.89	5.59	6.37	5.21	5.16	5.42	5.72	6.53
EOM	5.80	5.93	6.10	5.99	5.88	5.82	6.22	5.15	5.23	5.07	5.98	6.57

UTAH COUNTY

401818112014501. LOCAL NUMBER, (C-6-2)14aba-1.
LOCATION.--Lat 40°18'18", long 112°01'45", Hydrologic Unit 16020201.
Owner: Coop Security Corp.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 16 in., depth 1,258 ft, cased to 1,254 ft.
DATUM.--Land-surface datum is 4,865.70 ft above mean sea level. Measuring point: Top of casing, at land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--December 1954 to April 1955, March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 109.06 ft below land-surface datum, Apr. 12, 1955; lowest, 141.41 ft below land-surface datum, Aug. 15, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	113.08	112.85	112.70	112.40	112.44	112.38	112.19	112.16	112.06	111.96	e112.03	e111.97
10	112.99	112.84	112.72	112.60	112.37	112.30	112.19	112.08	111.98	111.97	e112.01	e111.96
15	113.05	112.80	112.66	112.41	112.28	112.17	112.23	112.06	111.00	e112.04	112.00	e111.95
20	112.95	112.76	112.62	112.50	112.34	112.17	112.21	111.00	111.98	e112.05	e112.00	e111.93
25	113.00	112.78	112.62	112.46	112.24	112.26	112.19	111.96	112.04	e112.00	e111.99	e111.90
EOM	112.91	112.78	112.59	112.39	112.36	112.27	112.11	112.02	112.02	e111.99	e111.90	e111.84

e Estimated.

UTAH COUNTY--Continued

402333111513401. LOCAL NUMBER, (D-5-1)8dcc-1.
LOCATION.--Lat 40°23'33", long 111°51'34", Hydrologic Unit 16020201.
Owner: Lehi Irrigation Co.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused irrigation artesian well, diameter 14 in., depth 240 ft, cased to 240 ft, perforated at 85, 105, 165, and 200 ft.
DATUM.--Land-surface datum is 4,555.03 ft above mean sea level. Measuring point: Top of recorder platform, 3.50 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--September 1935 to December 1936, April 1947, March 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.07 ft above land-surface datum, Apr. 10, 1983, 1984; lowest, 35.29 ft below land-surface datum, Aug. 31, 1963.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.28	1.57	.86	.95	1.43	1.75	2.90	9.45	12.00	16.21	16.59	14.32
10	2.23	1.25	.91	1.20	1.42	1.75	3.50	11.25	12.31	16.13	16.97	14.71
15	2.24	1.05	1.09	1.02	1.33	1.70	4.92	12.70	14.20	15.90	16.68	15.31
20	2.16	.84	1.07	1.37	1.17	1.70	5.15	10.23	14.88	15.91	16.39	14.87
25	2.09	1.07	1.14	1.35	1.49	1.78	6.60	9.24	15.31	14.87	13.73	15.10
EOM	1.85	.95	1.20	1.32	1.67	1.87	10.00	8.84	15.80	15.35	13.42	15.05

WASHINGTON COUNTY

371415113471501. LOCAL NUMBER, (C-41-17)7ada-1.
LOCATION.--Lat 37°14'15", long 113°47'15", Hydrologic Unit 15010008.
Owner: St. George City.
AQUIFER.--Navajo Sandstone.
WELL CHARACTERISTICS.--Diameter 12 in., depth 375 ft, cased to 203 ft.
DATUM.--Land-surface datum is 3,600 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--March 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 209.79 ft below land-surface datum, Jan 20, 1974; lowest, 239.14 ft below land-surface datum, Aug. 25, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	233.67	234.01	234.38	e233.77	234.12	233.67	233.93	232.98	234.11	e235.30	236.48	236.94
10	233.80	234.21	234.34	e233.76	233.73	233.73	233.75	232.72	234.37	e235.55	236.57	236.64
15	233.87	234.32	233.91	e233.75	233.39	233.83	233.59	233.15	234.30	e235.80	238.02	236.66
20	233.60	234.33	233.69	e233.74	233.51	234.14	233.53	233.25	e234.55	e236.05	238.02	236.65
25	233.61	234.14	233.76	234.08	233.48	234.10	233.31	233.47	e234.80	236.27	239.14	236.41
EOM	233.93	234.51	233.75	233.96	233.57	233.89	233.10	233.97	e235.05	236.41	237.38	236.34

370231113320301. LOCAL NUMBER, (C-43-15)16dac-1.
LOCATION.--Lat 37°02'31", long 113°32'03", Hydrologic Unit 15010009.
Owner: Kent Bentley.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 14 in., depth unknown.
DATUM.--Land-surface datum is 2,678.00 ft above mean sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--September 1985 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 41.75 ft below land-surface datum, Apr. 18, 1987; lowest, 43.27 ft below land-surface datum, Sept. 30, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	42.96	42.95	42.85	42.52	42.48	42.08	42.00	41.98	42.27	42.48	42.75	43.00
10	42.94	43.06	42.93	42.74	42.31	42.09	41.87	41.94	42.24	42.53	42.77	42.99
15	43.01	43.00	42.89	42.42	42.18	41.93	41.90	42.04	42.29	42.60	42.86	43.02
20	43.01	42.98	42.82	42.59	42.24	42.10	41.99	42.08	42.32	42.70	42.90	43.04
25	43.00	42.92	42.82	42.56	42.11	42.08	41.93	42.04	42.41	42.66	42.93	43.06
EOM	42.99	42.98	42.70	42.35	42.13	41.99	41.88	42.20	42.45	42.74	42.97	43.27

e Estimated.

WEBER COUNTY

411544111461001. LOCAL NUMBER, (A-6-2)18bad-1.
LOCATION.--Lat 41°15'44", long 111°46'10", Hydrologic Unit 16020102.
Owner: U.S. Bureau of Reclamation.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in., depth 155 ft, perforated 105-115 ft, 125-145 ft.
DATUM.--Land-surface datum is 4,924 ft above mean sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--January 1956 to March 1966, October 1968 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.93 ft below land-surface datum, June 5, 1985; lowest, 34.96 ft below land-surface datum, Nov. 30, 1956.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.71	18.61	19.18	18.97	20.41	20.93	21.57	17.83	16.81	21.23	23.33	25.57
10	18.18	18.72	19.58	20.20	19.64	21.01	20.16	19.98	17.80	21.25	23.50	26.96
15	18.16	18.84	19.60	19.74	19.60	20.18	22.43	20.23	19.37	21.01	23.57	27.37
20	18.42	19.03	19.26	19.20	20.38	19.95	21.99	16.36	20.90	21.13	23.07	27.58
25	18.35	19.10	19.76	19.16	20.56	19.97	22.50	15.42	20.82	21.94	24.09	27.73
EOM	18.46	19.07	19.95	20.29	20.09	20.07	22.84	14.88	19.99	22.57	25.95	27.85

411348112013601. LOCAL NUMBER, (B-6-2)26ada-1.
LOCATION.--Lat 41°13'48", long 112°01'36", Hydrologic Unit 16020102.
Owner: Amalgamated Sugar Company.
AQUIFER.--Unconsolidated alluvium.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 16 in., depth 595 ft, cased to 400 ft.
DATUM.--Land-surface datum is 4,275 ft above mean sea level. Measuring point: Top of casing, 0.10 ft below land-surface datum.
REMARKS.--Records good.
PERIOD OF RECORD.--August 1935 to December 1950, January 1953 to October 1961, February 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 20.50 ft above land-surface datum, Mar. 11, 1937; lowest, 11.38 ft below land-surface datum, Sept. 10, 1981.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.08	3.56	3.17	1.97	1.52	1.31	1.17	e1.74	2.79	4.67	6.24	e7.04
10	3.87	3.71	3.00	1.98	1.48	1.29	1.23	e2.01	2.87	4.92	6.47	e7.14
15	3.74	3.74	2.75	1.82	1.38	1.18	1.27	e2.27	3.17	5.23	6.58	e7.25
20	3.54	e3.88	2.54	1.80	1.37	1.13	1.30	e2.54	3.55	5.52	e6.68	e7.37
25	3.44	e3.66	2.38	1.70	1.26	1.15	1.38	e2.81	3.99	5.76	e6.79	e7.47
EOM	3.38	e3.43	2.20	1.57	1.31	1.22	e1.48	2.77	4.37	5.98	e6.92	e7.57

e Estimated

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
				BEAVER COUNTY							
382924112592901	(C-28-10) 5ADD- 1	100VLFL	--	07-15-87	850	7.6	17.0	230	140	55	22
382204113001302	(C-28-10)17CDC- 2	100VLFL	220	07-15-87	920	7.7	25.5	250	110	54	27
382115113010201	(C-28-10)19DCC- 2	100VLFL	300	07-23-87	2560	-	14.0	--	--	--	--
382019112591701	(C-28-10)28CCC- 1	100VLFL	316	07-15-87	810	7.7	18.0	--	--	--	--
382020113001602	(C-28-10)29CCD- 3	100VLFL	156	07-22-87	2290	-	13.0	--	--	--	--
382020113012101	(C-28-10)30CDC- 2	100VLFL	160	07-22-87	485	-	20.0	--	--	--	--
382006112592601	(C-28-10)32AAD- 1	100VLFL	171	07-22-87	1210	-	13.5	--	--	--	--
382313113020901	(C-28-11)12DBC- 2		460	07-15-87	2240	7.1	17.0	--	--	--	--
382137113014001	(C-28-11)24DAA- 1	100VLFL	204	07-23-87	2750	-	15.0	--	--	--	--
382020113014202	(C-28-11)25DDD- 2	100VLFL	150	07-22-87	760	-	20.0	--	--	--	--
381928113025301	(C-28-11)35DDD- 2	100VLFL	150	07-22-87	1600	-	15.0	--	--	--	--
381927113014002	(C-28-11)36DDD- 3	100VLFL	204	07-22-87	1340	-	14.0	--	--	--	--
381625112412901	(C-29- 7)19BCD- 1	100VLFL	256	08-21-87	455	7.0	13.0	--	--	--	--
381516112422201	(C-29- 8)25CAC- 1	100VLFL	290	08-21-87	290	7.9	20.0	--	--	--	--
381900112592601	(C-29-10) 5ADD- 1	100VLFL	310	07-21-87	1660	-	15.0	--	--	--	--
381835112594201	(C-29-10) 5DCD- 1	100VLFL	320	07-21-87	1050	-	13.5	--	--	--	--
381835112592601	(C-29-10) 5DDD- 1	100VLFL	320	07-21-87	1160	-	15.0	--	--	--	--
381835113010101	(C-29-10) 6DCC- 1	100VLFL	258	07-22-87	830	-	13.5	--	--	--	--
381814113011501	(C-29-10) 7BDB- 3		207	07-22-87	830	-	14.0	--	--	--	--
381823112592601	(C-29-10) 8AAD- 1		--	07-21-87	465	-	19.0	--	--	--	--
381741112594301	(C-29-10) 8DCD- 1	100VLFL	392	07-21-87	1100	-	14.0	--	--	--	--
381649112595601	(C-29-10)17DCC- 1	100VLFL	201	07-21-87	700	-	13.5	--	--	--	--
381714113003401	(C-29-10)18DAA- 1	100VLFL	298	07-15-87	600	7.2	13.5	--	--	--	--
381649113005001	(C-29-10)18DCD- 1	100VLFL	375	07-20-87	630	-	15.5	--	--	--	--
381910113014102	(C-29-11) 1ADA- 3	100VLFL	145	07-22-87	1590	-	13.0	--	--	--	--
381901113014101	(C-29-11) 1ADD- 1	100VLFL	64	07-15-87	850	7.2	16.0	--	--	--	--
381835113014001	(C-29-11) 1DDD- 1	100VLFL	210	07-22-87	1120	-	14.0	--	--	--	--
381834113024902	(C-29-11) 2DDD- 2	100VLFL	200	07-22-87	1160	-	14.0	--	--	--	--
381925113054001	(C-29-11) 4BAA- 1	100VLFL	68	09-30-87	990	-	15.0	--	--	--	--
381826113024702	(C-29-11)11AAD- 2	100VLFL	220	07-22-87	890	-	15.0	--	--	--	--
381801113032101	(C-29-11)11CAA- 1	100VLFL	95	07-22-87	900	-	15.5	--	--	--	--
381741113034001	(C-29-11)11CCD- 1	100VLFL	62	07-22-87	1020	-	14.0	--	--	--	--
381806113021401	(C-29-11)12CAA- 1	100VLFL	312	07-22-87	970	-	14.0	--	--	--	--
381742113015301	(C-29-11)12DDC- 1	100VLFL	240	07-21-87	320	-	20.5	--	--	--	--
381742113014101	(C-29-11)12DDD- 1	100VLFL	232	07-21-87	980	-	15.0	--	--	--	--
381700113033401	(C-29-11)14CDB- 1	100VLFL	--	07-21-87	400	-	17.5	150	46	41	11
381543113035501	(C-29-11)27AAD- 1	100VLFL	204	07-15-87	860	7.4	14.5	--	--	--	--
381536113042801	(C-29-11)27BDA- 1	100VLFL	189	07-21-87	1060	-	14.0	--	--	--	--
381513113042801	(C-29-11)27CDA- 1	100VLFL	216	07-21-87	630	-	15.0	--	--	--	--
381517113035601	(C-29-11)27DAD- 1	100VLFL	300	07-21-87	870	-	16.0	--	--	--	--
381542113052701	(C-29-11)28ABC- 1	100VLFL	259	07-21-87	3230	-	15.0	--	--	--	--
381323113103701	(C-30-12) 3DDD- 1	100VLFL	--	09-28-87	750	-	17.5	--	--	--	--
				BOX ELDER COUNTY							
412214112022301	(B- 7- 2) 2CBA- 5	100VLFL	342	09-16-87	440	7.8	12.0	200	37	64	9.4
412405112022501	(B- 8- 2)26BCD- 1	100VLFL	118	09-18-87	450	7.8	12.5	220	78	60	16
413358113543801	(B-10-18)28AAB- 1	100VLFL	250	08-06-87	1150	-	10.0	--	--	--	--
413300113543001	(B-10-18)33AAA- 1		84	08-06-87	3450	-	11.0	1500	1300	420	110
413306113543801	(B-10-18)33ABA- 1	100VLFL	92	08-06-87	1900	-	10.0	--	--	--	--
414454112173101	(B-12- 4)27DBD- 1		478	06-19-87	1770	7.3	15.0	580	390	130	62
414405112165701	(B-12- 4)34ADB- 1		333	08-05-87	1120	-	17.0	--	--	--	--
414339112173401	(B-12- 4)34CCA- 1	100VLFL	292	06-19-87	1640	7.4	16.5	500	310	110	54
414813113075401	(B-12-11) 5BBB- 1	100VLFL	245	06-18-87	1940	7.7	14.0	750	560	210	55
414747113073701	(B-12-11) 5BDC- 1		190	06-18-87	2920	7.2	13.5	1100	880	320	75
414720113071601	(B-12-11) 8ABB- 1		275	06-18-87	2380	-	13.5	--	--	--	--
414634113075401	(B-12-11) 8CCC- 1		129	06-18-87	1530	-	13.5	--	--	--	--
414900112271701	(B-13- 5)31DAA- 1		405	08-07-87	1730	-	18.0	--	--	--	--
415721112262301	(B-14- 5) 8DDD- 1		105	08-05-87	800	-	11.5	270	4	82	15
415832112464301	(B-14- 8) 5BDB- 1		180	06-17-87	1710	-	19.0	--	--	--	--
415825112470501	(B-14- 8) 6ADD- 1		460	06-17-87	1960	-	19.5	--	--	--	--
415844112525201	(B-14- 9) 4BBB- 2	100VLFL	375	06-17-87	5980	-	22.0	--	--	--	--
415823112525301	(B-14- 9) 4BCC- 1		365	06-17-87	3200	-	20.5	--	--	--	--
415847112540401	(B-14- 9) 5BBB- 1	100VLFL	300	06-18-87	720	-	16.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
BEAVER COUNTY												
68	3.5	91	89	150	0.9	25	470	0.66	<0.01	<10	<10	200
82	3.6	136	180	93	1.0	29	550	0.46	<0.01	<10	<10	180
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26	4.9	102	46	40	0.5	43	270	1.40	0.02	<3	<1	70
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BOX ELDER COUNTY												
11	1.4	162	19	18	0.1	12	230	1.80	0.02	19	3	20
8.7	2.8	138	36	8.8	0.1	11	230	<0.10	--	1600	380	--
--	--	--	--	--	--	--	--	--	--	--	--	--
300	18	209	650	560	0.2	45	2200	2.30	0.05	20	10	680
--	--	--	--	--	--	--	--	--	--	--	--	--
160	3.8	186	100	460	0.3	27	1100	2.80	0.02	11	<1	60
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150	4.4	187	110	390	0.3	23	950	2.30	0.02	15	<1	80
98	9.8	194	67	500	0.1	25	1100	4.50	0.03	20	<10	120
150	9.6	232	80	830	0.1	21	1600	6.10	0.02	30	<10	170
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63	1.9	263	27	22	0.2	37	410	27.0	0.04	47	3	100
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
					BOX ELDER COUNTY--Continued						
415754112551301	(B-14- 9) 7BBB- 1		608	06-18-87	790	-	18.5	--	--	--	--
415703112513501	(B-14- 9)16AAA- 1		400	06-17-87	2010	-	14.0	--	--	--	--
415635112533001	(B-14- 9)17CAA- 1		608	08-05-87	2600	-	18.5	--	--	--	--
415654112573301	(B-14-10)14BBC- 1	100VLFL	840	06-18-87	1250	-	22.0	--	--	--	--
415956112525201	(B-15- 9)28CBC- 1	100VLFL	400	06-17-87	6320	-	24.0	--	--	--	--
415847112545301	(B-15- 9)31CDC- 1		263	06-19-87	730	-	19.5	--	--	--	--
415927112525201	(B-15- 9)33BBC- 1		410	08-05-87	7370	-	24.5	--	--	--	--
415908112484801	(B-15- 9)36CAD- 1		255	08-05-87	2280	-	19.5	--	--	--	--
415939112562201	(B-15-10)36BBB- 1	100VLFL	613	06-18-87	425	-	16.0	--	--	--	--
					CACHE COUNTY						
414216111511001	(A-11- 1) 8DDA- 3	100VLFL	85	07-15-87	490	7.7	11.5	--	--	--	--
415020111520401	(A-13- 1)29BCD- 1	100VLFL	173	07-15-87	460	-	14.5	200	--	42	23
					DAVIS COUNTY						
405535111525101	(A- 2- 1) 7ABA- 4	100VLFL	450	09-21-87	295	7.5	16.5	--	--	--	--
405019111560001	(B- 1- 1)10AAC- 1		231	09-22-87	2980	-	16.5	--	--	--	--
405451111540801	(B- 2- 1)24BAD- 3	100VLFL	386	09-21-87	520	7.8	16.5	110	--	33	7.2
405258111544101	(B- 2- 1)26AAD- 3	100VLFL	--	09-22-87	940	-	12.0	--	--	--	--
405229111551301	(B- 2- 1)26CDA- 5		305	09-23-87	1240	-	17.0	--	--	--	--
410430112054001	(B- 4- 2)17CDD- 1	100VLFL	583	09-18-87	380	-	16.0	--	--	--	--
410910112050001	(B- 4- 2)20ADA- 1		600	09-18-87	365	-	16.0	--	--	--	--
410340112030001	(B- 4- 2)27ABA- 1		304	09-21-87	650	7.6	13.5	47	--	12	4.1
410830111584001	(B- 5- 1)29BDC- 1		627	09-22-87	570	7.4	11.5	270	41	77	18
410835111591501	(B- 5- 1)30ADA- 1		900	09-22-87	560	7.6	11.5	260	110	74	18
410850112035501	(B- 5- 2)21DDD- 1		110	09-17-87	1100	-	13.0	--	--	--	--
410759112073601	(B- 5- 3)25DCD- 1	100VLFL	520	09-18-87	380	-	15.5	--	--	--	--
					GRAND COUNTY						
383539109340901	(D-25-21)26DCC- 1	112ALVM	55	03-10-87	650	7.6	14.5	290	60	82	21
					IRON COUNTY						
375440112520001	(C-33- 8)20CDD- 3		125	03-10-87	395	-	12.0	--	--	--	--
375257112483501	(C-33- 8)31CCC- 2		450	06-15-87	730	7.7	14.0	300	62	63	34
375006112554801	(C-34-10)24ABC- 1		135	07-15-87	620	7.5	13.5	--	--	--	--
374834113384301	(C-34-16)28DCC- 2	100VLFL	148	05-05-87	1240	7.6	12.0	460	380	140	27
374753113464601	(C-34-17)32CCA- 1	100VLFL	306	06-11-87	540	7.4	19.5	--	--	--	--
374619113053101	(C-35-11) 9DBA- 1		--	08-18-87	550	7.8	14.5	--	--	--	--
374550113040601	(C-35-11)11CCC- 1		263	08-18-87	880	7.6	14.5	420	250	80	54
374248113075201	(C-35-11)31DBB- 1		--	08-18-87	560	8.1	14.5	--	--	--	--
374304113052901	(C-35-11)33AAC- 1		136	08-18-87	1100	7.5	12.0	--	--	--	--
374649113305801	(C-35-15) 3DCC- 3		316	05-05-87	2130	7.7	14.0	1000	910	240	100
374623113381301	(C-35-16) 9ADD- 1		150	05-05-87	840	7.6	12.0	360	260	110	20
374412113384503	(C-35-16)21DCC- 3	100VLFL	300	05-05-87	455	7.8	14.0	190	55	59	11
374227113394101	(C-35-16)32DCD- 1	100VLFL	140	05-05-87	1170	7.4	14.0	530	200	160	32
374105113084901	(C-36-12)12DBA- 1		600	08-18-87	600	7.5	15.5	--	--	--	--
374209113322203	(C-36-15) 4BAD- 3	100VLFL	320	05-05-87	770	7.6	20.0	--	--	--	--
373656113415201	(C-36-17)36AAD- 1	100VLFL	363	07-16-87	445	7.8	10.5	--	--	--	--
373234113111601	(C-37-12)34ABB- 1		190	08-18-87	870	7.1	11.0	--	--	--	--
					JUAB COUNTY						
395353113424201	(C-11-17) 1BDC- 3	100VLFL	506	08-13-87	325	-	19.0	--	--	--	--
395405113431201	(C-11-17) 2AAD- 1	100VLFL	506	08-13-87	890	-	17.0	--	--	--	--
395315113430301	(C-11-17)12BDC- 1	100VLFL	526	08-13-87	275	-	18.0	--	--	--	--
394545111531001	(C-12- 1)24BAA- 1	100VLFL	66	07-08-87	1260	7.5	12.5	--	--	--	--
393342111534501	(C-14- 1)26DBD- 1	100VLFL	--	07-09-87	1280	-	13.5	--	--	--	--
393313111524001	(C-14- 1)36ACA- 1	100VLFL	--	07-09-87	1210	-	12.0	--	--	--	--
395244111502501	(D-11- 1) 9BBB- 1		83	07-08-87	450	-	14.0	--	--	--	--
394848111500201	(D-11- 1)33CAB- 1		452	07-08-87	485	-	11.5	--	--	--	--
394518111515801	(D-12- 1)19DBB- 1	100VLFL	248	07-08-87	1270	8.0	12.0	--	--	--	--
394454111511502	(D-12- 1)20CCC- 2		490	07-08-87	1460	-	12.0	--	--	--	--
394225111495701	(D-13- 1) 4CCA- 1	100VLFL	375	07-09-87	1460	7.4	11.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
BOX ELDER COUNTY--CONTINUED												
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CACHE COUNTY												
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24	1.7	235	11	8.9	0.2	10	260	<0.10	0.01	120	59	--
DAVIS COUNTY												
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60	1.0	171	28	26	0.3	17	280	1.70	0.04	8	7	40
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120	6.0	262	10	39	0.4	30	380	<0.10	0.67	260	54	90
21	2.2	225	33	20	0.1	11	320	0.57	0.03	<3	3	50
18	1.8	146	30	16	0.1	12	260	1.10	0.12	<3	11	30
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GRAND COUNTY												
20	3.6	231	82	16	0.2	15	380	0.93	0.04	11	7	40
IRON COUNTY												
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31	11	235	47	61	0.2	30	420	1.90	0.02	5	1	120
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40	13	78	110	240	4.0	61	680	2.30	0.01	6	5	110
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29	8.8	170	250	34	0.3	34	590	8.70	0.01	4	1	70
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160	16	103	760	390	0.4	61	1800	2.70	0.02	20	20	510
21	6.0	99	52	110	0.3	49	430	3.10	0.03	<3	<1	70
17	8.6	138	770	400	0.3	51	1400	1.70	0.02	6	<1	30
29	7.2	335	66	160	0.2	46	700	4.60	0.03	<3	5	30
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JUAB COUNTY												
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
					JUAB COUNTY--Continued						
394226111501601	(D-13- 1) 5DDA- 1	100VLFL	336	07-09-87	1480	-	11.5	--	--	--	--
394225111502201	(D-13- 1) 5DDB- 1	100VLFL	344	07-09-87	1620	-	10.5	--	--	--	--
394224111502601	(D-13- 1) 5DDB- 2	100VLFL	352	07-09-87	1670	7.4	11.0	510	130	140	39
394226111502101	(D-13- 1) 5DDB- 3	100VLFL	350	07-09-87	1530	-	11.0	--	--	--	--
393315111511601	(D-14- 1)31ADA- 1	100VLFL	--	07-09-87	1190	-	12.5	--	--	--	--
393312111521001	(D-14- 1)31BCB- 1	100VLFL	--	07-09-87	1200	-	12.0	--	--	--	--
					KANE COUNTY						
371034112230401	(C-42- 5)11BDB- 1		160	06-19-87	730	7.4	15.0	340	170	82	33
370050112274501	(C-44- 5) 6CBB- 1		--	06-19-87	3030	7.2	16.0	--	--	--	--
					MILLARD COUNTY						
391710112334701	(C-18- 6) 6ABA- 2	100VLFL	812	07-07-87	405	8.3	27.5	34	--	7.7	3.5
391324114000001	(C-18-19)20DDD- 2	100VLFL	560	08-13-87	290	-	21.0	120	--	28	11
390807112192501	(C-19- 4)29ACB- 1		380	06-11-87	830	-	14.5	--	--	--	--
390758112194601	(C-19- 4)29BCD- 1		390	06-10-87	710	-	14.0	--	--	--	--
391134112234601	(C-19- 5) 3ACD- 1	100VLFL	530	06-11-87	1280	-	17.0	--	--	--	--
390703113571001	(C-19-19)35BAA- 1		--	08-13-87	800	-	13.0	--	--	--	--
390617113571901	(C-19-19)35DCD- 1		--	08-13-87	475	-	12.0	--	--	--	--
390615114010001	(C-19-20)36CCC- 1	100VLFL	395	08-13-87	285	-	15.0	--	--	--	--
390558112194601	(C-20- 4) 5CCA- 1		565	09-15-87	1200	-	15.0	--	--	--	--
390440114010501	(C-20-19) 7DAD- 1	100VLFL	395	08-13-87	265	-	15.0	--	--	--	--
390430114013001	(C-20-19) 7DCC- 1		--	08-13-87	260	-	15.0	--	--	--	--
390043112273901	(C-21- 5) 6CAC- 1		90	06-08-87	1950	-	12.0	--	--	--	--
385939112272303	(C-21- 5) 7CDD- 3		--	06-10-87	1290	7.3	13.5	440	120	94	51
385942112261501	(C-21- 5) 8CDD- 2	100VLFL	278	06-08-87	740	-	15.0	--	--	--	--
390018112214601	(C-21- 5)12BAD- 2		325	06-11-87	690	-	13.0	--	--	--	--
385919112253801	(C-21- 5)16BCB- 1		296	06-11-87	630	-	14.0	--	--	--	--
385916112251701	(C-21- 5)16BDC- 1		256	06-11-87	650	-	14.0	--	--	--	--
385846112252001	(C-21- 5)16CDC- 1		295	06-11-87	700	-	13.0	--	--	--	--
385848112254101	(C-21- 5)17DDD- 1		281	06-08-87	720	-	12.0	--	--	--	--
385835112274101	(C-21- 5)20AAD- 2		631	06-11-87	740	-	13.0	--	--	--	--
385839112263101	(C-21- 5)20BBA- 2		480	06-10-87	820	-	16.0	--	--	--	--
385820112261501	(C-21- 5)20BDD- 2		615	06-10-87	720	-	16.0	--	--	--	--
385806112263201	(C-21- 5)20CCA- 2	100VLFL	631	06-10-87	760	-	16.5	--	--	--	--
385800112254001	(C-21- 5)20DDA- 1		323	06-08-87	650		14.0	--	--	--	--
385816112252301	(C-21- 5)21CBA- 3		630	06-10-87	710	-	14.0	--	--	--	--
385729112254201	(C-21- 5)29ADD- 1		550	06-10-87	640	-	15.0	--	--	--	--
385725112261501	(C-21- 5)29BDD- 2		632	06-10-87	830	-	18.0	--	--	--	--
385714112264701	(C-21- 5)29CBC- 1		900	06-10-87	2750	-	20.0	--	--	--	--
385715112271201	(C-21- 5)30DBC- 3	100VLFL	773	06-11-87	2000	-	20.0	--	--	--	--
385610112250201	(C-21- 5)33DCC- 2		258	06-09-87	1260	-	14.0	--	--	--	--
385630114011201	(C-21-19)31DCC- 1	100VLFL	395	08-12-87	490	-	11.0	--	--	--	--
385605112240301	(C-22- 5) 3BAA- 1		380	06-12-87	1500	-	14.5	--	--	--	--
385528112241901	(C-22- 5) 3CDB- 1		338	06-12-87	1230	-	16.0	--	--	--	--
385514112241801	(C-22- 5)10BAB- 1		338	06-11-87	1200	-	16.5	--	--	--	--
385324112252301	(C-22- 5)21BAB- 2	100VLFL	335	06-09-87	1020	-	12.5	--	--	--	--
385303112234801	(C-22- 5)22ADC- 2	100VLFL	260	06-09-87	1320	-	14.5	--	--	--	--
385230112244601	(C-22- 5)28AAD- 1	100VLFL	354	06-09-87	1010	-	13.5	--	--	--	--
385214112245801	(C-22- 5)28ADB- 1		380	06-11-87	970	-	14.5	--	--	--	--
385135112250301	(C-22- 5)33ABD- 1	100VLFL	375	06-12-87	900	-	13.5	--	--	--	--
384950112262301	(C-23- 5) 8BAD- 1		125	06-11-87	740	-	12.5	--	--	--	--
385015112333601	(C-23- 6) 5CBC- 1	112PVNT	162	06-11-87	4940	-	14.5	--	--	--	--
384910112312101	(C-23- 6)10CCC- 2		125	07-29-87	2560	-	18.5	610	310	140	64
384906112305001	(C-23- 6)15BAA- 1		125	07-30-87	1750	-	13.0	590	300	150	52
384848112305101	(C-23- 6)15BDA- 1		415	07-29-87	910	-	14.0	370	160	86	37
384856112315701	(C-23- 6)16BAD- 1		130	06-09-87	3050	7.2	16.0	790	480	210	64
384828112313801	(C-23- 6)16DDB- 1		400	06-11-87	2450	-	13.0	--	--	--	--
384815112331401	(C-23- 6)17CDC- 1		440	07-29-87	9600	-	15.5	2600	2400	520	320
384748112315801	(C-23- 6)21BDD- 1	100VLFL	415	06-09-87	7500	6.9	13.0	2300	2200	490	250
		100VLFL	415	07-29-87	8500	-	13.5	2500	2200	550	280
384818114002001	(C-23-19)20BAC- 1		415	08-12-87	1300	-	18.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
JUAB COUNTY--CONTINUED												
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150	3.7	381	120	240	0.2	26	950	7.40	0.02	5	<1	100
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KANE COUNTY												
33	12	171	200	14	0.2	11	490	2.90	0.04	5	<1	80
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MILLARD COUNTY												
80	1.9	162	18	32	0.7	31	270	<0.10	0.02	7	4	140
25	1.9	181	11	16	0.1	14	220	0.18	<0.01	13	<1	40
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110	3.4	32[illegible]	220	100	0.2	27	800	5.60	0.02	<3	<1	470
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290	22	303	310	480	0.6	33	1500	0.98	0.01	30	<10	1300
140	20	290	170	300	0.3	27	1000	3.60	0.03	5	1	610
45	7.5	212	68	130	0.4	28	530	3.80	0.01	10	<1	140
330	43	303	390	600	1.6	40	1900	4.00	0.03	30	10	1400
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950	100	187	1000	2800	0.4	41	5800	1.90	0.01	40	10	2300
[illegible]0	42	61	1600	1700	0.3	42	4900	22.0	0.02	50	20	2500
[illegible]40	49	278	390	1700	0.3	40	4000	21.0	0.02	70	20	2900
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 19

STATION NUMBER	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
MILLARD COUNTY--Continued											
384815114003701	(C-23-19)20BCD- 1	100VLFL	135	08-12-87	415	-	9.0	--	--	--	--
383912112561201	(C-25-10)12BCC- 1	100VLFL	260	09-30-87	530	-	15.0	--	--	--	--
383631112564001	(C-25-10)26CAA- 1	100VLFL	--	09-30-87	550	-	17.0	--	--	--	--
PIUTE COUNTY											
381440111584001	(C-29- 2)35BAD- 1		197	08-19-87	405	-	15.5	--	--	--	--
381003112010301	(C-30- 2)28BDC- 1		135	08-19-87	430	-	12.5	190	--	53	15
SALT LAKE COUNTY											
405047112014301	(B- 1- 2) 2DAC- 1	100VLFL	440	08-28-87	860	-	26.0	-	--	--	--
404659112005601	(B- 1- 2)36BAA- 1	100VLFL	464.	08-28-87	6800	7.5	27.0	280	46	55	34
404306112031201	(C- 1- 2)22BDD- 4	100VLFL	35	08-28-87	2150	7.8	13.0	800	700	210	67
403408111543201	(C- 3- 1)12CCB- 1	100VLFL	118	08-29-87	940	7.3	20.5	280	110	61	31
402721111550801	(C- 4- 1)23DBB- 1	100VLFL	262	08-29-87	1100	7.4	17.0	350	120	74	39
403027112012401	(C- 4- 2) 1BBB- 1	100VLFL	540	08-29-87	1280	7.7	17.0	500	400	140	36
404506111523301	(D- 1- 1) 7ABD- 6	100VLFL	130	08-29-87	1190	7.4	14.0	540	340	130	52
403116111524801	(D- 3- 1)31ABB- 1	100VLFL	138	08-29-87	470	7.2	17.0	180	--	41	20
SAN JUAN COUNTY											
371716109325501	(D-40-22)30BBB- 1	220JRSC	825	03-09-87	820	8.6	19.0	--	--	--	--
371621109211001	(D-40-23)27BAA- 1	220JRSC	672	03-09-87	3000	7.4	15.0	--	--	--	--
SANPETE COUNTY											
392740111345302	(D-16- 3) 4AAA- 1		--	03-04-87	1130	7.3	11.0	390	36	85	44
			--	09-01-87	1100	7.4	11.0	370	190	79	43
SEVIER COUNTY											
385910111512101	(C-21- 1)13ABD- 1		291	08-20-87	720	-	18.0	--	--	--	--
384800112002001	(C-23- 2)15DCB- 4		75	08-20-87	1020	-	11.5	530	300	110	61
384702112031001	(C-23- 2)19DAB- 1		75	08-20-87	520	-	15.5	260	39	48	33
384450112034001	(C-24- 2) 6ABC- 1		308	08-20-87	1230	-	11.0	--	--	--	--
383140111522001	(C-26- 1)23DDB- 1		200	08-20-87	200	-	13.5	--	--	--	--
TOOELE COUNTY											
403802112301201	(C- 2- 6)23CBB- 1	100VLFL	210	07-09-87	1180	-	20.5	--	--	--	--
400849112263901	(C- 8- 5) 6DDB- 1		534	07-30-87	620	-	17.5	--	--	--	--
400432112262601	(C- 8- 5)31DAD- 1		--	07-31-87	610	-	11.0	--	--	--	--
UTAH COUNTY											
402537111531501	(C- 4- 1)36DAA- 1		480	07-01-87	840	-	14.5	--	--	--	--
401730111594501	(C- 6- 1)18CDD- 1		265	07-30-87	690	7.1	29.5	--	--	--	--
401702111594001	(C- 6- 1)19ACC- 1	100VLFL	265	07-30-87	630	-	24.0	--	--	--	--
401607112023401	(C- 6- 2)26CBB- 1	100VLFL	505	07-30-87	470	7.4	11.5	--	--	--	--
401600112023401	(C- 6- 2)26CBC- 1		--	07-30-87	530	-	11.5	--	--	--	--
400315111572001	(C- 9- 1) 4CCC- 1	100VLFL	--	07-02-87	1450	7.7	14.0	350	230	86	34
402518111462701	(D- 5- 1) 1AAA- 1	100VLFL	507	07-01-87	320	7.4	9.5	230	69	61	19
402259111525201	(D- 5- 1)18CAB- 2		618	07-01-87	270	8.6	14.5	120	--	26	14
402145111531101	(D- 5- 1)19CCC- 1	100VLFL	150	07-01-87	230	8.5	13.5	97	6	19	12
402103111461601	(D- 5- 2)30CCB- 2		225	07-01-87	530	7.4	11.5	--	--	--	--
401414111435301	(D- 7- 2) 4CBB- 2		144	07-31-87	540	7.6	13.0	250	24	64	23
401021111362701	(D- 7- 3)33BAA- 6	100VLFL	138	07-29-87	540	-	13.0	260	37	68	22
394930111470201	(D- 9- 1)35BCD- 2		276	07-02-87	520	-	13.0	--	--	--	--
400311111432001	(D- 9- 2) 9BAC- 1	100VLFL	445	07-02-87	580	7.3	14.0	270	3	67	26
400117111451101	(D- 9- 2)19ACA- 1		--	07-02-87	415	-	13.0	--	--	--	--
WASHINGTON COUNTY											
371305113470401	(C-41-17)17CBA- 1		626	06-22-87	480	7.6	20.0	--	--	--	--
370915113232302	(C-42-14)11ACA- 2		--	08-19-87	1390	7.2	21.0	--	--	--	--
370515113310302	(C-42-15)34DBA- 2		--	07-22-87	5190	6.9	17.0	--	--	--	--
WAYNE COUNTY											
382717111365601	(D-27- 3)19AAA- 1		285	08-20-87	1630	-	10.5	--	--	--	--
381902111321101	(D-29- 3) 1CAB- 1		433	08-20-87	200	-	18.5	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
MILLARD COUNTY--CONTINUED												
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PIUTE COUNTY												
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22	5.3	205	23	13	0.3	40	290	0.21	0.03	7	1	80
SALT LAKE COUNTY												
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290	28	231	250	40	0.5	55	890	3.70	0.02	40	1	220
1000	22	102	48	7100	1.2	44	8600	<0.10	0.01	420	140	500
80	8.3	167	110	120	0.3	35	550	0.25	0.03	<3	<1	130
98	9.1	223	140	150	0.6	27	670	2.00	0.05	8	2	150
55	8.0	102	80	230	0.2	50	660	1.70	0.06	5	2	70
42	3.0	197	170	120	0.2	19	650	5.60	0.04	16	10	90
14	9.6	204	2.2	11	0.4	40	260	3.60	0.59	1100	460	60
SAN JUAN COUNTY												
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SANPETE COUNTY												
94	8.6	357	140	80	0.2	54	720	1.20	0.043	11	17	160
100	10	183	120	96	0.2	55	610	1.20	0.04	13	<1	150
SEVIER COUNTY												
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24	4.3	222	130	130	0.3	32	620	1.20	0.09	8	2	70
16	7.6	217	26	22	0.2	17	300	0.32	0.02	6	1	40
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TOOELE COUNTY												
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UTAH COUNTY												
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290	8.5	129	210	300	0.3	58	1100	9.20	0.01	<3	1	150
4.9	0.8	162	73	11	0.3	8.3	280	0.27	<0.01	4	1	10
18	2.0	126	13	19	0.3	17	180	0.32	<0.01	5	3	20
7.7	1.0	91	13	8.5	0.2	6.3	120	<0.10	0.01	72	17	<10
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160	2.6	231	120	12	0.2	19	540	<0.10	0.01	31	72	50
14	1.9	223	43	12	0.2	11	310	0.91	0.03	9	1	40
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180	8.5	271	110	25	0.3	50	630	3.40	0.02	<3	<1	70
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WASHINGTON COUNTY												
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WAYNE COUNTY												
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

QUALITY OF GROUND WATER
WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

STATION NUMBER	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
				WEBER COUNTY							
411153112064602	(B- 5- 2) 6BDD- 3	100VLFL	609	09-16-87	380	8.1	15.5	130	--	37	10
411153112064601	(B- 5- 2) 6BDD- 4	100VLFL	303	09-21-87	470	8.0	15.0	140	--	35	13
411702112071701	(B- 6- 2) 6CBC- 2	100VLFL	512	09-16-87	2220	-	17.0	--	--	--	--
411708112105701	(B- 6- 2) 4DAB- 1		540	09-22-87	820	-	20.0	--	--	--	--
411523112082101	(B- 6- 3)15CBC- 1	100VLFL	20	09-16-87	470	-	16.0	--	--	--	--
411830111581501	(B- 7- 1)29DDC- 1		245	09-17-87	335	-	12.0	--	--	--	--
411835111593001	(B- 7- 1)30DCA- 1		180	09-16-87	350	-	15.0	--	--	--	--
411807111580501	(B- 7- 1)32ADA- 4		60	09-17-87	320	-	12.5	--	--	--	--
412011112041401	(B- 7- 2)16DCD- 2	100VLFL	1176	09-17-87	340	8.2	26.0	64	--	19	3.9
411940112050501	(B- 7- 2)20DAA- 1		150	09-16-87	1400	-	14.0	--	--	--	--
411821112034601	(B- 7- 2)34BBB- 2	100VLFL	517	09-17-87	1700	7.8	18.0	--	--	--	--

GEOLOGICAL UNIT (AQUIFER):

100VLFL - VALLEY FILL OR BASIN FILL, CENOZOIC AGE.
112ALVM - OLDER ALLUVIUM, PLEISTOCENE AGE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1986 TO SEPTEMBER 1987

DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY (CACO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS (P) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
WEBER COUNTY												
24	3.3	157	15	13	0.2	18	210	<0.10	<0.01	11	42	30
36	8.3	207	2.9	14	0.3	31	260	<0.10	<0.01	57	120	80
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48	7.1	164	4.4	7.1	0.7	29	220	<0.10	<0.01	120	43	70
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GEOLOGICAL UNIT (AQUIFER)--CONTINUED

112PVNT - PAVANT FLOW, PLEISTOCENE AGE.
220JRSC - JURASSIC SYSTEM, JURASSIC AGE.

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CALENDAR FOR WATER YEAR 1987

1986

OCTOBER

S	M	T	W	T	F	S
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1987

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